Código fonte Monitoramento PDE

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Bibliotecas utilizadas

- Highcharts 4.2.5
- Angular 1.5.8
- OpenLayers 3.17
- AngularuiBootstrap 2.0.2
- Bootstrap 3.3.7
- JS-XLSX

Style.css

```
/*

        Theme Name:         Monitoramento do Plano diretor estratégico
        Theme URI:          http://gestaourbana.prefeitura.sp.gov.br/marco-
        regulatorio/plano-diretor/
        Description:        Tema para o portal de indicadores do plano diretor. <a
        href="https://github.com/felipematheus/monitoramento_pde">GitHub</a>
        Version:            1.0
        Author:             Felipe Matheus Rosa
        Author URI:         http://fmr.io
        Text Domain:        sage
        License:            MIT License
        License URI:        http://opensource.org/licenses/MIT
        */




        @font-face {
```

```css
    font-family: museo_slab500;
    src: url('assets/fonts/museoslab_500/museo_slab_500-webfont.eot');
    src: url('assets/fonts/museoslab_500/museo_slab_500-webfont.eot?#iefix')
format('embedded-opentype'),
        url('assets/fonts/museoslab_500/museo_slab_500-webfont.woff')
format('woff'),
        url('assets/fonts/museoslab_500/museo_slab_500-webfont.ttf')
format('truetype'),
        url('assets/fonts/museoslab_500/museo_slab_500-
webfont.svg#museo_slab500') format('svg');
    font-weight: normal;
    font-style: normal;
}


@font-face {
    font-family: museo_sans300;
    src: url('assets/fonts/museosans_300/museosans-300-webfont.eot');
    src: url('assets/fonts/museosans_300/museosans-300-webfont.eot?#iefix')
format('embedded-opentype'),
        url('assets/fonts/museosans_300/museosans-300-webfont.woff')
format('woff'),
        url('assets/fonts/museosans_300/museosans-300-webfont.ttf')
format('truetype'),
        url('assets/fonts/museosans_300/museosans-300-
webfont.svg#museo_sans300') format('svg');
    font-weight: normal;
    font-style: normal;
}


@font-face {
    font-family: museo_sans500;
    src: url('assets/fonts/museosans_500/museosans-500-webfont.eot');
    src: url('assets/fonts/museosans_500/museosans-500-webfont.eot?#iefix')
format('embedded-opentype'),
        url('assets/fonts/museosans_500/museosans-500-webfont.woff')
format('woff'),
        url('assets/fonts/museosans_500/museosans-500-webfont.ttf')
format('truetype'),
        url('assets/fonts/museosans_500/museosans-500-
webfont.svg#museo_sans500') format('svg');
    font-weight: normal;
    font-style: normal;
}
```

```css
@font-face {
    font-family: museo_700;
    src: url('assets/fonts/museo_700/museo700-regular-webfont.eot');
    src: url('assets/fonts/museo_700/museo700-regular-webfont.eot?#iefix')
format('embedded-opentype'),
         url('assets/fonts/museo_700/museo700-regular-webfont.woff')
format('woff'),
         url('assets/fonts/museo_700/museo700-regular-webfont.ttf')
format('truetype'),
         url('assets/fonts/museo_700/museo700-regular-webfont.svg#museo_700')
format('svg');
    font-weight: normal;
    font-style: normal;
}


body{
        font-family:museo_slab500, museo_sans500;
}
/* template header.php */
.navbar-default .navbar-brand{
        font-size:21px;
        font-weight:bold;
        color:#5e5e5e;
}


.navbar-default .navbar-brand:hover{
        color:#252525;
}


#navbar-gestao, #navbar-prefeitura{
        height:110%;
        text-align:center;
}


#menu-secoes{
        font-size:13px;
}


.menu-secoes-toggle{
        width:100%;
```

```css
}


header .navbar{
        margin-bottom: 15px;
        /*padding-bottom:12px;*/
        border-radius: 0;
}


header .navbar a{
        color:#777;
}


header .nav-pills>li>a{
        border-radius:12px;
}


header .navbar a:hover, .navbar a:focus{
        color:#252525;
}


@media(max-width:767px){
        .brand-title{
                line-height:30px;
                text-align:center;
                height:auto;
        }
}
@media(min-width: 768px) {
        header nav .container, .navbar-collapse{
                padding-left:0px;
                padding-right:0px;
        }
        #menu-secoes li a{
                padding:12px;
        }
}


@media (max-width: 992px) and (min-width:768px)  {
        #navbar-gestao{
                height:55%;
```

```css
        }

        #navbar-prefeitura{
                height:75%;
        }
}
@media (min-width: 1200px) {
        .container{
                        /*max-width: 960px;*/
        }
}


/* template  */
/* carrosel */


.carousel{
        background-color:#f8f8f8;
        border-color:#e7e7e7;
        border-width:1px;
        border-style:solid;
}


/* texto */
.carousel-caption h4{
        font-size:21px;
        color: #5e5e5e;
        text-shadow:0 0px 0px rgba(100,100,100,0.6);
}


.carousel-caption{
        right:9%;
        left:9%;
        color:#777;
        text-shadow:0 0px 0px rgba(130,130,130,0.6);
        padding-bottom: 5px;
        bottom:auto;
        top:0px;
        padding-top:20px;
        padding-bottom:20px;
}
```

```css
.slide-carrosel{
        min-height:160px;
        height:auto;
        display:inline-block;
}


/* setas */
.carousel-control{
        width:8%;
        border-radius:8px;
}


.carousel-control span{
        color:#5e5e5e;
}


.carousel-control.left{
        background-image:none;
        /*background-image: linear-gradient(to right,rgba(180,180,180,1)
0,rgba(248,248,248,0.3) 100%);*/
}


.carousel-control.right{
        background-image:none;
        /*background-image: linear-gradient(to right,rgba(248,248,248,0.3)
0,rgba(180,180,180,1) 100%);*/
}


/* botoes de paginacao */


.carousel-indicators{
        text-align:right;
        bottom:5px;
        margin-bottom:0px;
        right:0;
        left:auto;
        margin-right:9%;
}
.carousel-indicators .active{
        background-color:#252525;
```

```css
}


.carousel-indicators li{
	background-color:#777;
}


/* tabs */
.uib-tab.nav-item a{
	color:#777;
}


.uib-tab.nav-item a:hover{
	color:#252525;
}


.uib-tab.nav-item.active a{
	color:#ddd;
	background-color:#5e5e5e;
}


.uib-tab.nav-item.active a:hover, .uib-tab.nav-item.active a:focus{
	color:#fff;
	background-color:#5e5e5e;
}


.uib-tab.nav-item{
	margin-right:8px;
}


/* links */


@media (min-width: 768px) {
	.list-group-item{
		border:0;
	}
}
```

```css
.list-group-item a{
        color:#555;
}


.list-group-item a:hover{
        color:#000;
}


/* Descricao forma de visualizacao */


.titulo-forma-visu{
        color:black;
        font-weight:bold;
}


#saiba-mais, .link-saiba-mais{
        font-weight:bold;
}


.link-saiba-mais{
        color: #000;
        padding-left:5px;
        padding-right:5px;
}


.link-saiba-mais:hover{
        color: #000;
}


/* painel de indicadores */


.panel-heading{
        color:black !important;
        background-color:#E5E5E5 !important;
        /*border-color:#ff6666 !important;*/
        border-width:1px;
        border-style:dotted;
}
```

```css
.panel-heading small{
        color:#black;
}


/* saiba mais */


.icones-indicador{
        height:30px;
        padding-left:8px;
}


.icones-saiba-mais, .icones-visualizacao{
        height:30px;
        display:inline-block;
        padding:0;
}


.icones-visualizacao{
        height:auto;
        max-height:60px;
        width:auto;
}


.list-visualizacao a span{
        padding-left:0px;
        padding-right:0;
}


.list-visualizacao{
        padding-bottom:0;
        padding-top:0;
        padding-left:10px;
        margin-bottom:7px;
        padding-right:10px;
}


.link-saiba-mais-indicador{
```

```css
        padding-top:5px;
        padding-bottom:5px;
        display:block;
}


.link-saiba-mais-indicador span{
        font-size:120%;
}


.icones-redes-sociais{
        color:white;
        font-size:120%;
        border-radius:50%;
        width:30px;
        height:30px;
        text-align:center;
        padding:7px;
        background-color:#db2c30;
        margin-right:4px;
        margin-left:4px;
}


.img-rodape{
        margin:0 auto;
        max-width:250px;
}


.link-rodape{
        padding-bottom:8px;
        display:block;
        color:#db2c30;
}


.link-rodape:hover{
        color:#db2c30;
}


footer{
        border-color:#e7e7e7;
        border-width:1px;
```

```css
        border-style:solid;
}


#conteudo{
        margin-bottom:15px;
}


.list-pontilhada{
        /*border-bottom-color:#211D1F;
        border-bottom-width:2px;
        border-bottom-style:dotted;*/
        border-top-color:#211D1F;
        border-top-width:2px;
        border-top-style:dotted;
        font-size:85%;
        border-bottom-left-radius:0px !important;
        border-bottom-right-radius:0px !important;
        border-top-left-radius:0px !important;
        border-top-right-radius:0px !important;
}


.list-pontilhada:last-child{
        border-bottom-color:#211D1F;
        border-bottom-width:2px;
        border-bottom-style:dotted;
}


.acao-prioritaria:first-letter, .acao-prioritaria-cbo select{
        text-transform:capitalize;
}


.acao-prioritaria{
        text-align:left;
}


.ol-scale-line{
        right:0;
        left:auto;
        background-color:#FBD1CD;
}
```

```css
.ol-scale-line-inner{
        color:#777;
}


.oculto{
        visibility:hidden;
}


.page-header{
        margin-top:0px !important;
}


.content-page{
        line-height:2;
}


.content-page p:last-child{
        margin-bottom:20px;
}


.link-pagina{
        color:#db2c30;
}


.link-pagina:hover{
        color:#db2c30;
}


.subtitulo-instrumento p{
        font-size:12px;
}


.quebra-linha{
        white-space: pre-line;
}
```

```css
.primeira-maiuscula {
    text-transform: capitalize;
}
.descricao-cadastro{
        margin-top:-0.8em;
        margin-bottom:0.3;
        line-height:1.5;
}


.elemento-cadastro{
        margin-top:1em;
        margin-bottom:1em;
}


.controle-cadastro{
        height:2em;
}



/* Text Replaces */


h1.entry-title{
        visibility: hidden;
}
h1.entry-title:after{
        content:"Fórum";
        display: block;
        visibility: visible;
}


.bbp-author-avatar{
        display: none;
}


.forum-titles .bbp-forum-freshness, .forum-titles .bbp-topic-freshness{
        visibility: hidden;
}
```

```css
.forum-titles .bbp-forum-freshness:after, .forum-titles .bbp-topic-
freshness:after{
        content:"Última Postagem";
        visibility: visible;
        margin-left: -20%;
}


.forum-titles .bbp-topic-title{
        visibility: hidden;
}


.forum-titles .bbp-topic-title:after{
        content:"Tópico";
        visibility: visible;
        margin-left: -5%;
}
#subscription-toggle{
        display: none;
}
.tml-last-name-wrap th label{
        visibility: hidden;
}
.tml-last-name-wrap th label:after{
        content:"Instituição";
        visibility: visible;
        margin-left: -15.5%;
}
.bbp-reply-ip, .bbp-author-ip{
        display: none;
}


fieldset.bbp-form:nth-child(2) div:nth-child(3) label {
    visibility: hidden;
}


fieldset.bbp-form:nth-child(2) div:nth-child(3) label:after {
    content: "Instituição";
    visibility: visible;
}
```

```css
.caixa-data, .caixa-data p{
        margin-top:0px;
        margin-bottom:0px;
}
```

Monitoramento.php

```php
<
?
p
h
p
    /**
     * Template Name: Monitoramento
     */
?>


    <script type="text/javascript">
    function hexToRgb(hex) {
        var result = /^#?([a-f\d]{2})([a-f\d]{2})([a-f\d]{2})$/i.exec(hex);
        return result ? {
            r: parseInt(result[1], 16),
            g: parseInt(result[2], 16),
            b: parseInt(result[3], 16)
        } : null;
    }
    function componentToHex(c) {
        var hex = c.toString(16);
        return hex.length == 1 ? "0" + hex : hex;
    }
    function rgbToHex(r, g, b) {
        return "#" + componentToHex(r) + componentToHex(g) + componentToHex(b);
    }
    jQuery.noConflict();
    var app = angular.module('monitoramentoPde',
    ['ngResource','ngAnimate','ui.bootstrap','ngRoute','ngSanitize']);
    app.factory('Indicador',function($resource){
            return $resource('/wp-json/monitoramento_pde/v1/indicador/:id');
    });
    app.factory('IndicadorMemoria',function($resource){
            return $resource('/wp-json/monitoramento_pde/v1/indicador/memoria/:id');
    });
    app.factory('GrupoIndicador',function($resource){
            return $resource('/wp-json/monitoramento_pde/v1/grupo_indicador/:id');
    });
```

```javascript
app.factory('Menu',function($resource){
        return $resource('/wp-json/wp-api-menus/v2/menus/:id');
});
app.factory('FichaTecnicaInstrumento',function($resource){
        return $resource('/wp-
json/monitoramento_pde/v1/ficha_tecnica_instrumento/:id');
});
app.factory('IndicadorValores',function($resource){
        return $resource('/wp-
json/monitoramento_pde/v1/indicador/valores/:id?data=:data&territorio=:territori
o');
});
app.factory('IndicadorHistorico',function($resource){
        return $resource('/wp-
json/monitoramento_pde/v1/indicador/historico/:id?territorio=:territorio&regiao=
:regiao');
});
app.factory('VariavelHistorico',function($resource){
        return $resource('/wp-
json/monitoramento_pde/v1/variavel/historico/:id?territorio=:territorio&regiao=:
regiao');
});
app.factory('Noticia', function($resource){
        return $resource('/wp-
json/wp/v2/posts?per_page=5&filter[category_name]=Noticia');
});
app.factory('AcaoPrioritaria', function($resource){
        return $resource('/wp-json/monitoramento_pde/v1/acoes_prioritarias/');
});
app.filter('trustedHtml',
    function($sce) {
      return function(ss) {
        return $sce.trustAsHtml(ss)
    };
});
app.filter('dataFinal', function() {
    return function(input,dataInicial) {
        var out = [];
        for (var i = 0; i < input.length; i++) {
            if(input[i] >= dataInicial){
                out.push(input[i]);
            }
        }
        return out;
    }
});
```

```javascript
app.filter('setDecimal', function ($filter) {
    return function (input, places) {
        if (isNaN(input)) return input;
        // If we want 1 decimal place, we want to mult/div by 10
        // If we want 2 decimal places, we want to mult/div by 100, etc
        // So use the following to create that factor
        var factor = "1" + Array(+(places > 0 && places + 1)).join("0");
        return Math.round(input * factor) / factor;
    };
});
app.config(function($routeProvider) {
  $routeProvider
   .when("/estrategias/:idEstrategia", {
            controller:"dashboard",
        resolve: {
                        init: function() {
                            return function() {



        $scope.cargaCadastroIndicadores($route.current.params['idEstrategia']);
                            }
                    }
                }
  })
});
app.controller("dashboard", function($scope, $rootScope, $http, $filter,
$uibModal, Indicador, IndicadorValores, Noticia, Menu, AcaoPrioritaria,
IndicadorHistorico, GrupoIndicador, FichaTecnicaInstrumento, IndicadorMemoria,
VariavelHistorico) {

        $scope.tabAtivaForma = 1;
        GrupoIndicador.query({tipo:'instrumento',tipo_retorno:'object'},function(
instrumentos){
                $scope.instrumentos = instrumentos;
        });



        $scope.idPoligonoAnterior = 0;
        /*$scope.estiloRealce = function(resolution){
                var hexColor = this.get('color');

                var corRealce = ol.color.asArray(hexColor);
                corRealce = corRealce.slice();
                corRealce[3] = 0.4;

        return new ol.style.Style(
```

```
                {
                        fill : new ol.style.Fill(
                        {
                                color : corRealce
                        })
                });
        };*/

        $scope.inicializarSelecao = function(){
                $scope.selecao.idTerrSel = 4;
                $scope.idIndicadorAnterior = 0;
        }

        $scope.formatarData = function(data){
                dataArray = data.split('-');
                return new Date(dataArray[0],dataArray[1]-1,dataArray[2]);
        };

        $scope.atualizarAccordion = function(indicador){
                $scope.selecao.idIndicSel = indicador.id_indicador;
                $scope.inicializarSelecao();

                $scope.cargaIndicadorValores(true,true);
        };

                $scope.fixarMapa = function(idRegiao){


                                $scope.clickMapa = true;
                                $scope.hoverMapa = true;
                                $scope.realcarMapa(idRegiao);

                };

                $scope.estiloMapa = function(feature,resolution,transparencia,
corContorno){

                        //prefixoCor = '00';
                        //sufixoCor = '99';

                        //corContorno = [255,255,255];
                        //corForte = [166,21,0];
                        //corFraca = [104,122,127];
                        cores = [];
                        //cores[0] = [218,235,239];
                        cores[4] = [228,184,189];
```

```javascript
cores[3] = [208,121,128];
cores[2] = [197,72,75];
cores[1] = [193,42,40];
cores[0] = [168,28,25];


$scope.qtdClasses = 5;
//qtdCores = 15;
//qtdCores = 5;
//incrementoCor = qtdCores / qtdClasses;

regiao = $scope.dadosMapa.filter((regiao) => regiao.codigo
== feature.get('ID_REGIAO'))[0];

intervalo = Math.floor($scope.dadosMapa.filter((regiao) =>
regiao.valor > 0).length / ($scope.qtdClasses - 1));

if(intervalo == 0){
        intervalo = 1;
}

indiceClasseRegiao = (regiao.posicao + 1) / intervalo;


if(indiceClasseRegiao > $scope.qtdClasses - 1 &&
regiao.valor > 0){
        indiceClasseRegiao = $scope.qtdClasses - 1;
}else{
        indiceClasseRegiao = Math.ceil(indiceClasseRegiao);
}

if(indiceClasseRegiao > $scope.qtdClasses){
        indiceClasseRegiao = $scope.qtdClasses;
}

corRegiao = cores[indiceClasseRegiao-1];

//classeRegiao = Math.round(qtdCores - (incrementoCor *
indiceClasseRegiao ) );
//corClasse = indiceCorHexadecimal(classeRegiao);

//corRegiao = [];
/*angular.forEach(corFraca, function(value,key){
        corRegiao[key] = Math.round(corFraca[key] -
(((corFraca[key] - corForte[key]) / $scope.qtdClasses) * indiceClasseRegiao ));
});*/
```

```javascript
                    corRegiao[3] = transparencia;

                    //corRegiao = "#" + prefixoCor + corClasse + corClasse +
sufixoCor;

                    //corBorda = "#" + '11' + corClasse + corClasse + '88';

                    legenda = $scope.legenda.filter((legenda) => legenda.indice
== indiceClasseRegiao)[0];

                        if(angular.isUndefined(legenda)){
                            $scope.legenda.push({
                                indice: indiceClasseRegiao,
                                maximo: regiao.valor,
                                minimo: regiao.valor,
                                regioes: [regiao.codigo],
                                cor:
rgbToHex(corRegiao[0],corRegiao[1],corRegiao[2])
                            });
                        }else{
                            legenda.maximo = regiao.valor > legenda.maximo ?
regiao.valor : legenda.maximo;
                            legenda.minimo = regiao.valor < legenda.minimo ?
regiao.valor : legenda.minimo;
                            legenda.regioes.push(regiao.codigo);
                        }

                    $scope.ajustarLimitesLegenda(indiceClasseRegiao);
                    $scope.$apply();
                    return new ol.style.Style({
                            fill: new ol.style.Fill({
                                color: corRegiao
                            }),
                            stroke: new ol.style.Stroke({
                                color: corContorno,
                                width: 0.5
                            })
                    });

                }

            $scope.estiloRealce = function(resolution){
                    corContorno = [255,255,255];
                    return $scope.estiloMapa(this,resolution,0.3,corContorno);
            };

            $scope.estiloVetor = function(feature, resolution){
```

```
                    corContorno = [255,255,255];
                    return $scope.estiloMapa(feature,resolution,1,corContorno);
        };

    $scope.realcarMapa = function(idPoligonoAtual){

                if(idPoligonoAtual==null){

                        $scope.cargaIndicadorValores(false,true);

                        return;

                }else{

                        if(idPoligonoAtual !=
$scope.idPoligonoAnterior || !$scope.idPoligonoAnterior || $scope.hoverMapa ==
false){

                                $scope.idPoligonoAnterior =
idPoligonoAtual;

                                if($scope.selecao.idTerrSel !=
4){

    //console.log($scope.dadosMapa);
                                        $scope.regiaoRealcada =
angular.copy($scope.dadosMapa.filter((regiao) => regiao.codigo ==
idPoligonoAtual)[0], $scope.regiaoRealcada) ;
                                }else{
                                    /*
                                    $scope.regiaoRealcada =
{
                                            codigo: 1
                                            ,nome:
'Município'
                                    };*/

    //$scope.carregarGraficoHistorico(idPoligonoAtual);
                                            //return;
                                };


    $scope.layerVetor.setStyle($scope.estiloVetor);

    $scope.layerVetor.getSource().changed();
```

```javascript
$scope.layerVetor.getSource().forEachFeature(function(poligono){
                                                    if
(poligono.get('ID_REGIAO') != idPoligonoAtual){

        poligono.setStyle($scope.estiloRealce);

        poligono.changed();
                                                    }else{

        poligono.setStyle(null);
                                                    };
                                            });



        $scope.carregarGraficoHistorico(idPoligonoAtual);
                                };
                        };
                        $scope.hoverMapa = true;

            };

            $scope.carregarGraficoHistorico = function(idRegiao){

                    dataHistorica = [];
                    dataHistorica['original'] = [];
                    dataHistorica['formatada'] = [];

                    angular.forEach($scope.indicador.datas.slice().reverse(),
function(valor,chave){
                    if(valor >= $scope.selecao.dataMin && valor <=
$scope.selecao.dataMax){
                                this['original'].push(valor);
                                this['formatada'].push($filter('date')(valor,
$scope.indicador.periodicidade == 'mensal' ? 'MMM yyyy' : 'yyyy'));
                            }
                    },dataHistorica);


        IndicadorHistorico.get({id:$scope.selecao.idIndicSel,territorio:$scope.se
lecao.idTerrSel,regiao:idRegiao,dataMinima:$scope.selecao.dataMin,dataMaxima:$sc
ope.selecao.dataMax},function(indicadorHistorico){

                            $scope.carregarGraficoLinhas =
```

```javascript
                    indicadorHistorico.series.length > 0;

                    if(!$scope.carregarGraficoLinhas){
                            $scope.carregandoHistorico = 'Não há dados
históricos disponíveis para essa seleção!';
                    }else{
                            $scope.carregandoHistorico = null;
                    }

                    if(indicadorHistorico.series.length == 1){
                            indicadorHistorico.series[0].showInLegend =
false;
                    }

                    larguraGraficoLinha =
document.getElementById("divGraficoLinha").clientWidth;

                    $scope.graficoLinhas =
Highcharts.chart('graficoLinhas', {
                            chart: {
                                    type: 'line',
                                    marginTop: 25,
                                    width:larguraGraficoLinha
                            },
                            xAxis: {
                                    type: "category",
                                    crosshair: true,
                                    categories: dataHistorica['formatada']
                            },
                            series: indicadorHistorico.series,
                            tooltip: {
                                    formatter: function(){
                                            if($scope.selecao.idTerrSel ==
4)
                                                    nomeRegiao =
'Município';
                                            else
                                                    nomeRegiao =
$scope.regiaoRealcada.nome;

                                            textoTooltip =
(this.series.chart.series.length > 1 ? '<b>' + nomeRegiao + '</b> <br>' : '');

                                            textoTooltip = textoTooltip +
'<b>' + this.series.name + ' :</b> ' + Highcharts.numberFormat(this.y, this.y %
1 == 0 ? 0 : this.y < 100 ? 2 : this.y < 1000 ? 1 : 0,',','.') + ' ' +
```

```javascript
$scope.indicador.simbolo_valor + '<br>';


        if(this.series.chart.series.length > 1){
                                            varFiltro =
        $scope.variavelHistorico.filter((variavel) => (variavel.data ==
$scope.indicador.datas.slice().reverse()[this.point.x] || variavel.data == null)
&& (variavel.id_regiao == ($scope.selecao.idTerrSel != 4?
$scope.regiaoRealcada.codigo : 1)|| variavel.distribuicao == true) &&
(variavel.dimensao === this.series.name || (variavel.distribuicao == true &&
variavel.dimensao == null)));
                                        }else{
                                            varFiltro =
        $scope.variavelHistorico.filter((variavel) => (variavel.data ==
$scope.indicador.datas.slice().reverse()[this.point.x] || variavel.data == null)
&& (variavel.id_regiao == ($scope.selecao.idTerrSel != 4?
$scope.regiaoRealcada.codigo : 1)|| variavel.distribuicao == true));
                                        }
                                        varFiltroSemDataSemDimensao =
$scope.variavelHistorico.filter((variavel) => variavel.data == null &&
(variavel.id_regiao == $scope.regiaoRealcada.codigo || variavel.distribuicao ==
true) && variavel.dimensao == null);
                                        varFiltro =
varFiltro.concat(varFiltroSemDataSemDimensao);

                                        if(varFiltro.length > 1){

        angular.forEach(varFiltro, function(val,chave){
                                                textoTooltip =
textoTooltip + ' ' + val.nome + ': ' + Highcharts.numberFormat(val.valor,
val.valor % 1 == 0 ? 0 : this.y < 100 ? 2 : val.valor < 1000 ? 1 : 0,',','.') +
' ' + (val.tipo_valor ? val.tipo_valor : '') + '<br>';
                                                });
                                        }
                                        return textoTooltip;
                                }
                        },
                        title: null,
                        credits:false,
                        exporting: {
                                enabled:false
                        },
                        yAxis: {
                                labels:{
                                        formatter: function()
                                        {
```

```
                                                          result = this.value;
                                                          if
(this.chart.yAxis[0].max >= 1000000000) {

        if(this.chart.yAxis[0].max/ 1000000000.0 <= 8)
                                                    result =
Math.round((this.value / 1000000000.0) * 10.0)/10.0;
                                              else
                                                    result =
Math.round(this.value / 1000000000.0);
                                                    }
                                              else
                                                    if
(this.chart.yAxis[0].max >= 1000000) {

        if(this.chart.yAxis[0].max / 1000000.0 <= 8)

        result = Math.round((this.value / 1000000.0) * 10.0)/10.0;

        else

        result = Math.round(this.value / 1000000.0);
                                                          }else
                                                              if
(this.chart.yAxis[0].max >= 1000) {

        if(this.chart.yAxis[0].max / 1000.0 <= 8)

            result = Math.round((this.value / 1000.0) * 10.0)/10.0;

        else

            result = Math.round(this.value / 1000.0);
                                                                }
                                                  return result;
                                          }
                                    },
                                    title: {
                                          align:'high',
                                          rotation:0,
                                          y:-15,
                                          //margin:-80
                                    }
                              },
                              plotOptions: {
                                    series: {
```

```javascript
                                                  point: {
                                                      events: {
                                                          click:
function(e){

        if($scope.selecao.idTerrSel != 4){

        $scope.selecao.dataSel = dataHistorica['original'][this.index];

        sairMapa();

        $scope.clickMapa = false;

        $scope.idPoligonoAnterior = 0;



        $scope.cargaIndicadorValores(false,true);
                                                          }
                                                      }
                                                  }
                                              },
                                              events: {
                                                  mouseOut:
function () {

        //sairMapa();

                                              }
                                          }
                                      }
                                  },
                                  legend: {
                                      align: 'left',
                                      layout: 'horizontal'
                                  }
                              });

                      var textoTitulo;
                      if ($scope.graficoLinhas.yAxis[0].max >=
1000000000){

                              textoTitulo = $scope.indicador.tipo_valor + '
(Em bilhões de ' + $scope.indicador.simbolo_valor + ')';

                      }else
                              if ($scope.graficoLinhas.yAxis[0].max >=
1000000){
```

```javascript
                                              textoTitulo =
$scope.indicador.tipo_valor + ' (Em milhões de ' +
$scope.indicador.simbolo_valor + ')';
                                      }else
                                          if ($scope.graficoLinhas.yAxis[0].max
>= 1000) {

                                              textoTitulo =
$scope.indicador.tipo_valor + ' (Em milhares de ' +
$scope.indicador.simbolo_valor + ')';

                                      }else{
                                          textoTitulo =
$scope.indicador.tipo_valor + ' (' + $scope.indicador.simbolo_valor + ')';
                                      }

                              margemTitulo = textoTitulo.length * -6;
                              $scope.graficoLinhas.yAxis[0].setTitle({text:
textoTitulo, margin: margemTitulo});
                          });
              };


      $scope.cargaIndicadorValores = function(inserirMapa,
inserirTerritorioMapa){

              if(inserirTerritorioMapa)
                      $scope.carregandoMapa = 'Aguarde... carregando mapa';
              else
                      $scope.carregandoMapa = null;

              $scope.indicador = $scope.indicadores.filter((indicador) =>
indicador.id_indicador == $scope.selecao.idIndicSel)[0];

              if($scope.idIndicadorAnterior != $scope.selecao.idIndicSel){
                      $scope.selecao.dataSel = $scope.indicador.datas[0];
                      $scope.idIndicadorAnterior = $scope.selecao.idIndicSel;
                      $scope.selecao.idTerrSel =
$scope.indicador.id_territorio_padrao;
              }

              $scope.labelTerrSel =
$scope.indicador.territorios.filter((territorio) => territorio.id_territorio ==
$scope.selecao.idTerrSel)[0].nome;

              $scope.hoverMapa = false;
              $scope.clickMapa = false;
```

```javascript
$scope.carregarGraficoLinhas = false;



IndicadorValores.get({id:$scope.selecao.idIndicSel,data:$scope.selecao.da
taSel,territorio:$scope.selecao.idTerrSel},function(indicadorValores){



                $scope.indicadorValores = indicadorValores;
                $scope.selecao.dataMin =
$scope.indicador.datas[$scope.indicador.datas.length - 1];
                $scope.selecao.dataMax = $scope.indicador.datas[0] == null
? $scope.indicador.datas[1] : $scope.indicador.datas[0];
                $scope.legenda = [];
                $scope.dadosMapa = [];
                $scope.idPoligonoAnterior = 0;

                Highcharts.setOptions({
        chart: {
            style: {
                fontFamily: 'museo_slab500'
            }
        },
                    colors: ['#FFC300', '#FF5733', '#C70039', '#1B8DD8',
'#581845'],
                });



VariavelHistorico.query({id:$scope.selecao.idIndicSel,territorio:$scope.s
elecao.idTerrSel},function(variavelHistorico){
                    $scope.variavelHistorico = variavelHistorico;
                });

                if($scope.indicadorValores.series.length == 1){
                    $scope.indicadorValores.series[0].showInLegend =
false;
                }

                $scope.graficoBarras = new
Highcharts.chart('graficoBarras',{
                        chart: {
                            type: 'column',
                            marginTop: 25
                        },
```

```
title: {
        text: null
},
xAxis: {
        type: "category",
        crosshair: true,
        categories:
$scope.indicadorValores.categorias,
        labels: {
                style: {
                        fontSize:9
                }
        }
},
yAxis: {
        labels:{
                formatter: function(){
                        result = this.value;
                        if
(this.chart.yAxis[0].max >= 1000000000) {

    if(this.chart.yAxis[0].max / 1000000000.0 <= 8)
                                result =
Math.round((this.value / 1000000000.0) * 10.0)/10.0;
                                else
                                result =
Math.round(this.value / 1000000000.0);
                        }
                        else
                                if
(this.chart.yAxis[0].max >= 1000000) {

    if(this.chart.yAxis[0].max / 1000000.0 <= 8)

    result = Math.round((this.value / 1000000.0) * 10.0)/10.0;

    else

    result = Math.round(this.value / 1000000.0);
                                }else
                                        if
(this.chart.yAxis[0].max >= 1000) {

    if(this.chart.yAxis[0].max / 1000.0 <= 8)

            result = Math.round((this.value / 1000.0) * 10.0)/10.0;
```

```
            else

                result = Math.round(this.value / 1000.0);
                                                                            }
                                                return result;
                                        }
                                },
                                title: {
                                        align:'high',
                                        rotation:0,
                                        y:-15,
                                        //margin:-80
                                }
                        },
                        exporting: {
                                enabled:false
                        },
                        tooltip: {
                                formatter: function(){

                                        textoTooltip =
(this.series.name != 'Não categorizado' ? '<b>' + this.x  + '</b> <br>' : '');

                                        textoTooltip = textoTooltip +
'<b>' + (this.series.name == 'Não categorizado' ? this.x : this.series.name) +
': </b> ' + Highcharts.numberFormat(this.y, this.y % 1 == 0 ? 0 : this.y < 100 ?
2 : this.y < 1000 ? 1 : 0,',',',','.') + ' ' + $scope.indicador.simbolo_valor +
'<br>';

                                        if(this.series.name == 'Não
categorizado'){

                                                varFiltro =
        $scope.variavelHistorico.filter((variavel) => (variavel.data ==
$scope.selecao.dataSel || variavel.data == null) && (variavel.id_regiao ==
$scope.indicadorValores.codigos[this.point.x] || variavel.distribuicao ==
true));
                                        }else{

                                                varFiltro =
        $scope.variavelHistorico.filter((variavel) => (variavel.data ==
$scope.selecao.dataSel || variavel.data == null) && (variavel.id_regiao ==
$scope.indicadorValores.codigos[this.point.x] || variavel.distribuicao == true)
&& (variavel.dimensao == this.series.name || (variavel.distribuicao == true &&
variavel.dimensao == null)));
```

```javascript
                                                        }
                                                        //varFiltroSemDataSemDimensao
= $scope.variavelHistorico.filter((variavel) => variavel.data == null &&
(variavel.id_regiao == $scope.indicadorValores.codigos[this.point.x] ||
variavel.distribuicao == true) && variavel.dimensao == null);
                                                        //varFiltro =
varFiltro.concat(varFiltroSemDataSemDimensao);

                                                        if(varFiltro.length > 1){

        angular.forEach(varFiltro, function(val,chave){
                                                                textoTooltip =
textoTooltip + ' ' + val.nome + ': ' + Highcharts.numberFormat(val.valor,
val.valor % 1 == 0 ? 0 : val.valor < 100 ? 2 : val.valor < 1000 ? 1 : 0,',','.')
+ ' ' + (val.tipo_valor ? val.tipo_valor : '') + '<br>';
                                                                });
                                                        }
                                                        return textoTooltip;
                                                }
                                                //pointFormat: '<b>{series.name}</b>:
{point.y} ' + $scope.indicador.simbolo_valor
                                        },
                                        plotOptions: {
                                                column: {
                                                        stacking: 'normal',
                                                        borderWidth: 0
                                                },
                                                series: {
                                                                point: {

        events: {

                click: function(e){



                        $scope.fixarMapa($scope.dadosMapa[this.x].codigo);

                }
                                                                }
                                        },
                                        events: {

        mouseOut: function () {

                //sairMapa();
```

```javascript
                                        }
                                }
                        }
                },
                legend: {
                        align: 'left',
                        layout: 'horizontal'
                        //verticalAlign: 'bottom',

                },
                style:{
                        fontFamily: 'museo_slab500'
                },
                credits:false,
                series: $scope.indicadorValores.series
        });

        var textoTitulo;

        if ($scope.graficoBarras.yAxis[0].max >=
1000000000){
                textoTitulo = $scope.indicador.tipo_valor + '
(Em bilhões de ' + $scope.indicador.simbolo_valor + ')';

        }else
                if ($scope.graficoBarras.yAxis[0].max >=
1000000){
                        textoTitulo =
$scope.indicador.tipo_valor + ' (Em milhões de ' +
$scope.indicador.simbolo_valor + ')';

                }else
                        if ($scope.graficoBarras.yAxis[0].max
>= 1000) {
                                textoTitulo =
$scope.indicador.tipo_valor + ' (Em milhares de ' +
$scope.indicador.simbolo_valor + ')';

                        }else{
                                textoTitulo =
$scope.indicador.tipo_valor + ' (' + $scope.indicador.simbolo_valor + ')';

                        }

        margemTitulo = textoTitulo.length * -6;
        $scope.graficoBarras.yAxis[0].setTitle({text:
```

```
textoTitulo, margin: margemTitulo});


                        if(inserirTerritorioMapa){
                                $scope.layerVetor = new ol.layer.Vector({
                                        source: new ol.source.Vector({
                                                loader: function (extent) {



        $http.jsonp('http://monitoramentopde.gestaourbana.prefeitura.sp.gov.br/ge
oserver/Monitoramento_PDE/ows', {
                                                        params: {
                                                                service:
'WFS',
                                                                version:
'1.1.0',
                                                                request:
'GetFeature',
                                                                typename:
'Monitoramento_PDE:' + $scope.labelTerrSel,

        outputFormat: 'text/javascript',

        format_options: 'callback: JSON_CALLBACK',
                                                                bbox:
extent.join(',') + ',EPSG:3857'
                                                        }

        }).then(function(response){

        $scope.carregarVetor(response);

                                                        }).catch(
function () {

        $scope.carregandoMapa = 'Erro no carregamento do mapa';
                                                        })
                                                },
                                                strategy:
ol.loadingstrategy.bbox
                                        })
                                });
                                $scope.mapa.addLayer($scope.layerContorno);
                                $scope.mapa.addLayer($scope.layerVetor);
                        }
```

```javascript
            });

        if(inserirMapa == true){
            $scope.mapa = new ol.Map({
                target: 'map',
                view: new ol.View({
                    center: ol.proj.transform([-46.6, -23.68],
'EPSG:4326','EPSG:3857'),
                    zoom: 9.5
                }),
                interactions: ol.interaction.defaults({
                    mouseWheelZoom:false,
                    doubleClickZoom:false,
                    altShiftDragRotate:false,
                    keyboard:false,
                    shiftDragZoom:false,
                    dragPan:false,
                    pinchRotate:false,
                    pinchZoom:false
                }),
                controls: ol.control.defaults({
                            zoom: false,
                            attribution: false,
                            rotate: false
                }).extend([
                    //new ol.control.ScaleLine()
                ]),
                layers: [
                    /*new ol.layer.Tile({
                        name: 'OSM',
                        source: new ol.source.OSM()
                    })*/
                ]
            });

            $scope.mapa.on("click", function(evt) {
                if (evt.dragging) {
                    return;
                }
                if($scope.mapa.hasFeatureAtPixel(evt.pixel)){

                    poligonoRealcado =
$scope.mapa.forEachFeatureAtPixel(evt.pixel, function(poligonoRealcado, layer) {
                            return poligonoRealcado;
                    });
```

```javascript
                                    idPoligonoClick =
poligonoRealcado.get('ID_REGIAO');

                                    if($scope.regiaoRealcada.codigo ==
idPoligonoClick && $scope.clickMapa == true){
                                            $scope.clickMapa = false;
                                    }else{

                                            $scope.fixarMapa(idPoligonoClick);
                                    };
                            };
                    });
                    /*
                    $scope.popup = new ol.Overlay({
                            element: document.getElementById('infomapa')
                    });
                    $scope.mapa.addOverlay($scope.popup);
                    */
                    $scope.mapa.on('pointermove', function(evt) {
                            if (evt.dragging) {
                                    return;
                            }
                            var pixel =
$scope.mapa.getEventPixel(evt.originalEvent);

                            if($scope.selecao.idTerrSel != 4){
                                    $scope.realcarPorMapa(pixel);
                            };
                            //$scope.popup.setPosition(evt.coordinate);
                    });

            };




            function sairMapa(){
                    if($scope.hoverMapa){
                            $scope.hoverMapa = false;

                            $scope.regiaoRealcada.codigo = null;

        $scope.layerVetor.getSource().forEachFeature(function(poligono){
```

```javascript
                                        poligono.setStyle(null);
                                });


                        $scope.layerVetor.setStyle($scope.estiloVetor);
                                        $scope.layerVetor.getSource().changed();

                                        //$scope.cargaIndicadorValores(false,false);
                                };

                        };

                        $scope.realcarPorMapa = function(pixel) {
                                        if($scope.mapa.hasFeatureAtPixel(pixel)){

                                                poligonoRealcado =
$scope.mapa.forEachFeatureAtPixel(pixel, function(poligonoRealcado, layer) {
                                                        return poligonoRealcado;
                                                });

                                                idPoligonoAtual =
poligonoRealcado.get('ID_REGIAO');

                                                        if(!$scope.clickMapa){
                                                                $scope.realcarMapa(idPoligonoAtual);
                                                        };
                                                }else{

                                                        if(!$scope.clickMapa){
                                                                sairMapa();
                                                        };

                                        };
                                };



                        angular.forEach($scope.mapa.getLayers(), function(layer,key){
                                        if(layer.get('name') != 'OSM'){
                                                $scope.mapa.removeLayer(layer);
                                        }
                                });

                        $scope.layerContorno = new ol.layer.Tile({
                                        source: new ol.source.TileWMS({
                                                url:
```

```
'http://monitoramentopde.gestaourbana.prefeitura.sp.gov.br/geoserver/Monitoramen
to_PDE/wms/reflect',
                                params: {layers: 'Monitoramento_PDE:Município',
tiled: true},
                                serverType: 'geoserver'
                        })
                });



            $scope.ajustarLimitesLegenda = function(indiceClasseRegiao){

                    angular.forEach($scope.legenda, function(legenda, key){
                            legendaAnterior = $scope.legenda.filter((legendaObj)
=> legendaObj.indice == legenda.indice-1)[0];
                            legendaPosterior =
$scope.legenda.filter((legendaObj) => legendaObj.indice == legenda.indice+1)[0];
                            if(!angular.isUndefined(legendaAnterior)){
                                    legenda.maximo = legendaAnterior.minimo -
0.1;
                            }
                            if(!angular.isUndefined(legendaPosterior)){
                                    legenda.minimo = legendaPosterior.maximo +
0.1;
                            }
                    });
            };

            $scope.exportarGrafico = function(formatoArquivo){
                    if($scope.hoverMapa)
                    {
                            $scope.graficoLinhas.exportChartLocal({
                                    type: formatoArquivo,
                                    filename: $scope.indicador.nome + '_'
+$scope.selecao.dataMin + '_a_' + $scope.selecao.dataMax
                            });
                    }else
                    {
                            $scope.graficoBarras.exportChartLocal({
                                    type: formatoArquivo,
                                    filename: $scope.indicador.nome + '_'
+$scope.selecao.dataSel
                            });
                    }
```

```javascript
        };

        $scope.carregarVetor = function(resposta){

            format = new ol.format.GeoJSON(),

    $scope.layerVetor.getSource().addFeatures(format.readFeatures(resposta.da
ta));

            angular.forEach($scope.indicadorValores.series,
function(serie, indiceSerie){
                angular.forEach(serie.data, function(dado,
indiceDado){
                    //Na primeira série, crio o objeto de dados
                    if(indiceSerie == 0){
                        $scope.dadosMapa.push({codigo:
$scope.indicadorValores.codigos[indiceDado], valor: dado, nome:
$scope.indicadorValores.categorias[indiceDado]});
                    }else{
                        $scope.dadosMapa[indiceDado].valor =
$scope.dadosMapa[indiceDado].valor + dado;
                    }
                });
            });

            $scope.dadosMapa = $filter('orderBy')($scope.dadosMapa,
'valor', true);

            angular.forEach($scope.dadosMapa, function(value, key){
                value.posicao = key;
            });

            $scope.layerVetor.setStyle($scope.estiloVetor);
            $scope.carregandoMapa = null;

        };

        $scope.realcarClasse = function(classe){

            if(!$scope.clickMapa){

    $scope.layerVetor.setStyle($scope.estiloVetor);
                $scope.layerVetor.getSource().changed();


    $scope.layerVetor.getSource().forEachFeature(function(poligono){
                    apagarFeature = true;
```

```javascript
                                                angular.forEach(classe.regioes,
function(regiao,chave){
                                                        if(poligono.get('ID_REGIAO')
== regiao)
                                                                apagarFeature = false;
                                                });
                                                if(apagarFeature){

        poligono.setStyle($scope.estiloRealce);
                                                        poligono.changed();
                                                }else{
                                                        poligono.setStyle(null);
                                                };

                                        });
                                }
                        };

                        $scope.deixarClasse = function(){

                                if(!$scope.clickMapa){

        $scope.layerVetor.getSource().forEachFeature(function(poligono){
                                                poligono.setStyle(null);
                                        });


        $scope.layerVetor.setStyle($scope.estiloVetor);
                                        $scope.layerVetor.getSource().changed();
                                }
                        };

                        if($scope.selecao.idTerrSel == 4){

                                $scope.fixarMapa(1);
                                return;
                        }

                };

        $scope.cargaEstrategia = function(id){

        GrupoIndicador.get({id:id,tipo:'estrategia',tipo_retorno:'object'},functi
on(estrategia){
                                $scope.estrategia = estrategia.propriedades;
                                $scope.estrategia.nome = estrategia.nome;
```

```
                        $scope.estrategia.id_grupo_indicador =
estrategia.id_grupo_indicador;
                    });

                $scope.cargaCadastroIndicadores(id);
        };

        $scope.abrirModal = function(tipo){
                if(tipo=='instrumento')
                {
                        $rootScope.modalFichaInstrumento = $uibModal.open({
                                animation: true,
                                ariaLabelledBy: 'modal-titulo-ficha-instrumento',
                                ariaDescribedBy: 'modal-corpo-ficha-instrumento',
                                templateUrl: 'ModalFichaInstrumento.html',
                                controller: function($scope){},
                                scope:$scope,
                                //controllerAs: '$ctrl',
                                size: 'lg',
                                //appendTo: parentElem,
                                //resolve: {
                                //    items: function () {
                                //            return $ctrl.items;
                                //    }
                                //}
                        });

                GrupoIndicador.get({id:$scope.indicador.id_instrumento,tipo:'instrumento'
,tipo_retorno:'object'},function(fichaInstrumento){

                        $scope.fichaInstrumento = fichaInstrumento;

                    });
                }
                else
                {
                        if(tipo=='indicador')
                        {
                                $rootScope.modalFichaIndicador = $uibModal.open({
                                        animation: true,
                                        ariaLabelledBy: 'modal-titulo-ficha-
indicador',
                                        ariaDescribedBy: 'modal-corpo-ficha-
indicador',
                                        templateUrl: 'ModalFichaIndicador.html',
                                        controller: function($scope){},
```

```
                            scope:$scope,
                            //controllerAs: '$ctrl',
                            size: 'lg',
                            //appendTo: parentElem,
                            //resolve: {
                            //    items: function () {
                            //        return $ctrl.items;
                            //    }
                            //}
                    });
            }else
            {
                    if(tipo=='estrategia')
                    {
                            $rootScope.modalFichaEstrategia =
$uibModal.open({
                                    animation: true,
                                    ariaLabelledBy: 'modal-titulo-ficha-
estrategia',
                                    ariaDescribedBy: 'modal-corpo-ficha-
estrategia',
                                    templateUrl:
'ModalFichaEstrategia.html',
                                    controller: function($scope){},
                                    scope:$scope,
                                    //controllerAs: '$ctrl',
                                    size: 'lg',
                                    //appendTo: parentElem,
                                    //resolve: {
                                    //    items: function () {
                                    //        return $ctrl.items;
                                    //    }
                                    //}
                            });
                    }
            };
        };
    };


        $scope.fecharModal = function(tipo){
            if(tipo=='instrumento'){
                    $rootScope.modalFichaInstrumento.close();
            }else{
                    if(tipo=='indicador'){
                            $rootScope.modalFichaIndicador.close();
```

```javascript
                    }else{
                            if(tipo=='estrategia'){
                                    $rootScope.modalFichaEstrategia.close();
                            }
                    }
            }
    };

    $scope.exportarMemoria = function(){
                    function datenum(v, date1904) {
                    if(date1904) v+=1462;
                    var epoch = Date.parse(v);
                    return (epoch - new Date(Date.UTC(1899, 11, 30))) / (24 *
60 * 60 * 1000);
                    }

            function sheet_from_array_of_arrays(data, offset) {
                    var ws = {};
                    var range = {s: {c:10000000, r:10000000}, e: {c:0, r:0 }};

                    for(var R = 0; R <= data.length + 1; ++R) {
                            C = 0;

                                    for(var prop in data[R]) {
                                            if(prop.substring(prop.length-1,prop.length)
<= offset || prop.substring(0,prop.length-1)!= 'Variavel'){
                                                    if(range.s.r > R) range.s.r = R;
                                                    if(range.s.c > C) range.s.c = C;
                                                    if(range.e.r < R) range.e.r = R;
                                                    if(range.e.c < C) range.e.c = C;

                                                    if(typeof data[R][prop] ===
'function') continue;

                                                    if(R == 0)
                                                            var cell = {v: prop };
                                                    else
                                                            var cell = {v: data[R-1][prop]
};

                                                    if(cell.v == null) cell.v = '';
                                                    var cell_ref =
XLSX.utils.encode_cell({c:C,r:R});

                                                    if(typeof cell.v === 'number') cell.t
= 'n';
```

```
                                        else if(typeof cell.v === 'boolean')
cell.t = 'b';

                                        else if(cell.v instanceof Date) {
                                                cell.t = 'n'; cell.z =
XLSX.SSF._table[14];

                                                cell.v = datenum(cell.v);
                                        }
                                        else cell.t = 's';

                                        ws[cell_ref] = cell;
                                        C++;
                                }
                        }
                }

                if(range.s.c < 10000000) ws['!ref'] =
XLSX.utils.encode_range(range);
                        return ws;
                }

                /* original data */
                var wsNomeMemoria = "Memoria";
                var wsNomeMetadado = "Metadado";

                function Workbook() {
                        if(!(this instanceof Workbook)) return new Workbook();
                        this.SheetNames = [];
                        this.Sheets = {};
                }

                function s2ab(s) {
                        var buf = new ArrayBuffer(s.length);
                        var view = new Uint8Array(buf);
                        for (var i=0; i!=s.length; ++i) view[i] = s.charCodeAt(i) &
0xFF;

                        return buf;
                }

                function criarCelula(c, r, val){
                        var cell = {v: val };

                        if(cell.v == null) cell.v = '';

                        if(typeof cell.v === 'number') cell.t = 'n';
                        else if(typeof cell.v === 'boolean') cell.t = 'b';
                        else if(cell.v instanceof Date) {
```

```javascript
                        cell.t = 'n'; cell.z = XLSX.SSF._table[14];
                        cell.v = datenum(cell.v);
                }
                else cell.t = 's';

                return cell;
        }

        if($scope.hoverMapa){
                dataMemoria = null;
                dataInicioMemoria = $scope.selecao.dataMin;
                dataFimMemoria = $scope.selecao.dataMax;
        }else{
                dataInicioMemoria = null;
                dataFimMemoria = null;
                dataMemoria = $scope.selecao.dataSel;
        }

        IndicadorMemoria.get({id:$scope.indicador.id_indicador,

                data_inicio:dataInicioMemoria,

                data_fim:dataFimMemoria,

                data:dataMemoria,

                id_territorio:$scope.selecao.idTerrSel,

                id_regiao:($scope.regiaoRealcada !=
null)?$scope.regiaoRealcada.codigo:null},function(memoriaIndicador){
                $scope.memoriaIndicador = memoriaIndicador;
                var wb = new Workbook();
                var wsMemoria =
sheet_from_array_of_arrays($scope.memoriaIndicador.dados,$scope.memoriaIndicador
.qtd_variavel);

                var wsMetadado = {};
                coluna = 0, linha = 0;
                wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,$scope.indicador.nome);
                linha = linha + 2;
                wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,$scope.indicador.apresentacao);
                linha = linha + 2;
                wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,'Instrumento de política urbana e ambiental');
```

```
                        linha++;
                        wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,$scope.indicador.instrumento);
                        linha = linha + 2;
                        wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,'Estratégias');
                        linha++;

        angular.forEach($scope.indicador.estrategias,function(estrategia,chave){

        wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,estrategia.nome);
                            linha++;
                        });
                        linha++;
                        wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,'Fórmula de cálculo');
                        linha++;
                        wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,$scope.indicador.formula_calculo);
                        linha = linha + 2;
                        wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,'Unidade de medida');
                        linha++;
                        wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,$scope.indicador.tipo_valor);
                        linha = linha + 2;
                        wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,'Fonte');
                        linha++;
                        wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,$scope.indicador.fonte);
                        linha = linha + 2;
                        wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,'Periodicidade de atualização');
                        linha++;
                        wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,$scope.indicador.periodicidade);
                        linha = linha + 2;
                        wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,'Unidades de análise territorial');
                        linha++;

        angular.forEach($scope.indicador.territorios,function(valor,chave){

        wsMetadado[XLSX.utils.encode_cell({c:coluna,r:linha})] =
```

```javascript
criarCelula(coluna,linha,valor.nome);
                                    linha++;
                            });

                            var range = {s: {c:0, r:0}, e: {c:1, r:30 }};
                            wsMetadado['!ref'] = XLSX.utils.encode_range(range);

                            /* add worksheet to workbook */
                            wb.SheetNames.push(wsNomeMetadado);
                            wb.SheetNames.push(wsNomeMemoria);
                            wb.Sheets[wsNomeMetadado] = wsMetadado;
                            wb.Sheets[wsNomeMemoria] = wsMemoria;
                            var wbout = XLSX.write(wb, {bookType:'xlsx', bookSST:false,
type: 'binary'});

                            saveAs(new Blob([s2ab(wbout)],{type:"application/octet-
stream"}), $scope.indicador.nome + ".xlsx");

                });
        }

        $scope.cargaCadastroIndicadores = function(id){


Indicador.query({grupo_indicador:id,somente_ativos:true},function(indicadores) {
                $scope.indicadores = indicadores;
        });
        }

        $scope.ajustarDataFinal = function(){
                if($scope.selecao.dataMin >= $scope.selecao.dataMax){
                        $scope.selecao.dataMax = $scope.indicador.datas[0] == null
? $scope.indicador.datas[1] : $scope.indicador.datas[0];
                }
        };

        $scope.selecao = {};
        $scope.inicializarSelecao();

        $scope.cargaEstrategia(1);

        Noticia.query(function(noticias){
                $scope.noticias = noticias;
        });

        AcaoPrioritaria.query(function(acoesPrioritarias){
```

```javascript
                $scope.acoesPrioritarias = acoesPrioritarias;
        });

        Menu.get({id:4},function(menu){
                $scope.menuForma = menu;
        });

        $scope.atribuirRegiaoSemSelecao = function(){
                nomeTerritorio = $scope.labelTerrSel.split(" ");
                nomeTerritorio = nomeTerritorio[0];
                ultimaLetraTerritorio =
nomeTerritorio.substring(nomeTerritorio.length-1,nomeTerritorio.length);
                if(ultimaLetraTerritorio == 'a'){
                        $scope.regiaoSemSelecao = 'Todas';
                }else{
                        $scope.regiaoSemSelecao = 'Todos';
                }
        };

});
</script>


<div id="conteudo" data-ng-app="monitoramentoPde" data-ng-
controller="dashboard">


<script type="text/ng-template" id="ModalFichaInstrumento.html">


<div class="modal-instrumento">
        <div class="modal-header">
    <h3 class="modal-title" id="modal-titulo-ficha-
instrumento">{{indicador.instrumento}} <button class="btn btn-danger pull-right"
type="button" ng-click="fecharModal('instrumento')">X</button></h3>
        </div>
        <div class="modal-body" id="modal-corpo-ficha-instrumento" style="text-
align:justify">

                <p ng-repeat="(chave, valor) in fichaInstrumento.propriedades" >
                <span ng-click="this.aberto==true? this.aberto=false :
this.aberto=true"><strong> {{chave}} </strong> <i class="glyphicon" ng-
if="chave!='Definição'" ng-class="{'glyphicon-chevron-up': this.aberto,
'glyphicon-chevron-down': !this.aberto}"></i>
```

```html
            <br>
            <span ng-bind-html="valor" ng-if="this.aberto==true ||
chave=='Definição'" class="quebra-linha"></span>
            </span>


    </p>




    </div>
    <div class="modal-footer">
            <button class="btn btn-danger" type="button" ng-
click="fecharModal('instrumento')"> Fechar</button>
    </div>
</div>
</script>


<script type="text/ng-template" id="ModalFichaIndicador.html">


<div class="modal-instrumento">
    <div class="modal-header">
    <h3 class="modal-title" id="modal-titulo-ficha-
instrumento">{{indicador.nome}} <button class="btn btn-danger pull-right"
type="button" ng-click="fecharModal('indicador')">X</button> </h3>
    </div>
    <div class="modal-body" id="modal-corpo-ficha-instrumento" style="text-
align:justify">
                    <p class="quebra-linha" ng-bind-
html="indicador.nota_tecnica_resumida"> </p>
                    <p class="quebra-linha" ng-show="indicador.nota_tecnica !=
null"><strong> Nota técnica  </strong> <br> <span ng-bind-
html="indicador.nota_tecnica"></span>  </p>
                    <p><strong> Instrumento de Política Urbana e Gestão
Ambiental  </strong> <br> <a class="link-ficha-instrumento btn btn-default btn-
sm" style="margin-left:-7px;padding-left:7px;padding-right:7px;background-
color:#ccc" ng-click="abrirModal('instrumento')"> {{indicador.instrumento}} </a>
<br>  </p>
                    <p><strong> Estratégias </strong> <br>
                    <span ng-repeat="estrategia in indicador.estrategias">
                     <a class="link-ficha-instrumento btn btn-default btn-sm"
style="margin-left:-7px;padding-left:7px;padding-right:7px;background-
color:#ccc" ng-click="abrirModal('estrategia')"> {{estrategia.nome}} </a> <br>
                    </span>
```

```html
                    </p>
                    <p style="white-space:pre-wrap;"><strong> Fórmula de
cálculo </strong> <br> <span ng-bind-html="indicador.formula_calculo"></span>
</p>
                    <p><strong> Unidade de medida </strong> <br> <span ng-bind-
html="indicador.tipo_valor"></span> </p>
                    <p><strong> Série histórica </strong> <br> De
{{indicador.datas[indicador.datas.length-1] | date: indicador.periodicidade ==
'anual' ? 'yyyy' : 'MMMM yyyy'}} a {{indicador.datas[0] | date:
indicador.periodicidade == 'anual' ? 'yyyy' : 'MMMM yyyy' }}</p>
                    <p><strong> Fontes </strong> <br> <span ng-bind-
html="indicador.fonte"></span> </p>
                    <p><strong> Periodicidade de atualização </strong> <br>
<span class="primeira-maiuscula">{{indicador.periodicidade}}</span> </p>
                    <p><strong> Unidade territorial de análise </strong> <br>
                    <span ng-repeat="territorio in indicador.territorios |
orderBy: 'ordem'">
                        {{territorio.nome}} <br>
                    </span>
                    </p>
            </div>
        <div class="modal-footer">
            <button class="btn btn-danger" type="button" ng-
click="fecharModal('indicador')">  Fechar</button>
        </div>
</div>
</script>




<script type="text/ng-template" id="ModalFichaEstrategia.html">


<div class="modal-estrategia">
        <div class="modal-header">
    <h3 class="modal-title" id="modal-titulo-ficha-
estrategia">{{estrategia.nome}} <button class="btn btn-danger pull-right"
type="button" ng-click="fecharModal('estrategia')">X</button> </h3>
        </div>
        <div class="modal-body" id="modal-corpo-ficha-estrategia" style="text-
align:justify">
                    <p class="quebra-linha"> <a
href="{{estrategia.link_infografico}}" target="_blank"><img class="img-
responsive" src="{{estrategia.link_imagem}}" alt="{{estrategia.nome}}"></a> </p>
                    <p class="quebra-linha" ng-bind-
```

```html
html="estrategia.descricao"> </p>
                        <p class="quebra-linha" ng-
if="estrategia.texto_complementar!=null" ng-bind-
html="estrategia.texto_complementar">  </p>
                        <p class="quebra-linha text-center" ng-
if="estrategia.link_video_embed!=null">
                        <object style="width:100%;height:100%;width: 820px; height:
461.25px; float: none; clear: both; margin: 2px auto;"
data="{{estrategia.link_video_embed}}">
                        </object>
                        </p>

                        <p class="quebra-linha" ng-
if="estrategia.perguntas_respostas!=null"> <strong>Perguntas e respostas
</strong> <br> <span ng-bind-html="estrategia.perguntas_respostas"></span></p>
                </div>
        <div class="modal-footer">
                <button class="btn btn-danger" type="button" ng-
click="fecharModal('estrategia')"> Fechar</button>
        </div>
</div>
</script>


<script type="text/ng-template" id="indicador.html">
        <div class="row">
                                <div class="col-sm-6">
                                        <p class="quebra-linha" ng-bind-
html="indicador.apresentacao"></p>

                                        <a class="link-saiba-mais link-saiba-mais-
indicador" ng-click="abrirModal('indicador')"> Ficha técnica do indicador </a>
                                        <a class="link-saiba-mais link-saiba-mais-
indicador" ng-click="abrirModal('instrumento')"> Ficha técnica do instrumento
</a>
                                        <a class="link-saiba-mais link-saiba-mais-
indicador" ng-click="exportarMemoria()">Memória de cálculo do indicador </a>
                                </div>
                                <div class="col-sm-6">
                                        <div class="row" style="width:100%;max-
height:30px;">
                                                <!--<a href="#/compartilhar"
class="pull-right"><img class="img-responsive icones-indicador"
src="/app/themes/monitoramento_pde/images/icones/compartilhar.png"></a>-->
                                                <!--<a href="" ng-
click="exportarGrafico('application/pdf')" class="pull-right"><img class="img-
```

```html
responsive icones-indicador"
src="/app/themes/monitoramento_pde/images/icones/pdf.png"></a>-->
                                    <!--<a href="" ng-
click="exportarGrafico('image/jpeg')" class="pull-right"><img class="img-
responsive icones-indicador"
src="/app/themes/monitoramento_pde/images/icones/jpg.png"></a>-->
                                    <!--<a href="" ng-
click="exportarMemoria()" class="pull-right"><img class="img-responsive icones-
indicador" src="/app/themes/monitoramento_pde/images/icones/odt.png"></a>-->
                            </div>
                            <div class="row">
                                    <div class="col-sm-5 col-sm-offset-1
caixa-data">

                                            <p ng-if="hoverMapa &&
(indicador.datas.length > 0 || indicador.datas[0]) ">

                                                    <label for="data"> Data
inicial:</label>

                                                    <br>
                                                    <select style="max-
width:100%;" data-ng-model="selecao.dataMin" data-ng-options="data as
(formatarData(data) | date: indicador.periodicidade == 'anual' ? 'yyyy' : 'MMMM
yyyy') for data in indicador.datas | filter:'' " data-ng-
change="ajustarDataFinal();carregarGraficoHistorico(regiaoRealcada.codigo);"
name="dataInicial"></select>
                                            </p>
                                            <p ng-if="hoverMapa &&
(indicador.datas.length > 0 || indicador.datas[0]) ">
                                                    <label for="data"> Data
final: </label>

                                                    <br>
                                                    <select style="max-
width:100%;" data-ng-model="selecao.dataMax" data-ng-options="data as
(formatarData(data) | date: indicador.periodicidade == 'anual' ? 'yyyy' : 'MMMM
yyyy') for data in indicador.datas | filter:'' | dataFinal: selecao.dataMin "
data-ng-change="carregarGraficoHistorico(regiaoRealcada.codigo)"
name="dataFinal"></select>
                                            </p>

                                            <p ng-if="!hoverMapa &&
(indicador.datas.length > 0 && indicador.datas[0]) ">
                                                    <label for="data">
Data</label>

                                                    <br>
                                                    <select style="max-
```

```html
width:100%;" data-ng-model="selecao.dataSel" data-ng-options="data as
(formatarData(data) | date: indicador.periodicidade == 'anual' ? 'yyyy' : 'MMMM
yyyy') for data in indicador.datas | filter:'' " data-ng-
change="cargaIndicadorValores(false,true)" name="periodo"></select>
                                                                </p>
                                                        </div>
                                                        <div class="col-sm-6">
                                                                <p>
                                                                        <label
for="territorio"> Unidade territorial de análise</label>
                                                                        <br>
                                                                        <select style="max-
width:100%;width:100%;" data-ng-model="selecao.idTerrSel" data-ng-
options="territorio.id_territorio as territorio.nome for territorio in
indicador.territorios | orderBy: 'ordem'" data-ng-
change="cargaIndicadorValores(false,true);atribuirRegiaoSemSelecao()"
name="territorio"></select>
                                                                </p>
                                                                <p ng-show="selecao.idTerrSel
!= 4">


                                                                        <select style="max-
width:100%;width:100%;" data-ng-model="regiaoRealcada.codigo" data-ng-
options="regiao.codigo as regiao.nome for regiao in dadosMapa" data-ng-
change="fixarMapa(regiaoRealcada.codigo);" name="regiao">
                                                                                <option
value="">{{regiaoSemSelecao}}</option></select>



                                                                </p>

                                                        </div>
                                                </div>
                                        </div>
                                </div>
                                <div class="row">
                                        <div ng-class="(selecao.idTerrSel != 4) ? 'col-sm-9'
: 'col-sm-12'">
                                                <div class="row" id="divGraficoLinha">

                                                        <div id="graficoBarras" ng-
show="!hoverMapa" style="min-height:465px;">
                                                        </div>
                                                        <div ng-if="hoverMapa &&
!carregarGraficoLinhas" style="display:flex;align-items:center;min-
```

```
height:465px;margin-left:120px;">
                                                 <h4 style="font-size:12px;"
class="alert alert-danger">{{carregandoHistorico}}</h4>
                                         </div>
                                         <div  id="graficoLinhas" ng-
show="hoverMapa && carregarGraficoLinhas" style="min-height:465px;">
                                         </div>
                                 </div>
                                 <div class="row">
                                         <div class="col-md-12">
                                                 <small>Fonte:
{{indicador.origem}} </small>
                                         </div>
                                 </div>
                                 <div class="row" ng-
if="indicador.observacao">
                                         <div class="col-md-12">
                                                 <small>Observação     :
{{indicador.observacao}} </small>
                                         </div>
                                 </div>
                                 <div class="row" ng-
if="indicador.data_atualizacao">
                                         <div class="col-md-12">
                                                 <small ng-
if="indicador.data_atualizacao != null">Atualizado em: <span style="text-
transform:capitalize">{{indicador.data_atualizacao | date: 'MMMM yyyy'}}</span>
</small>
                                         </div>
                                 </div>
                         </div>
                         <div class="col-sm-3" ng-show="selecao.idTerrSel !=
4">
                                 <div class="row">
                                         <div id="map" style="min-
height:400px;"> <span ng-if="carregandoMapa">{{carregandoMapa}}</span></div>
                                         <!--<div id="infomapa" ng-
show="hoverMapa">{{regiaoRealcada.nome}} {{regiaoRealcada.valor}}</div>-->
                                 </div>
                                 <div class="row">
                                         <div
style="width:18%;float:left;padding-left:1px;padding-right:1px;" data-ng-
repeat="classe in legenda | orderBy: '-indice'">
                                                 <div ng-
mouseover="realcarClasse(classe)" ng-mouseleave="deixarClasse()"
style="height:5px;width:100%;display:block;background-color:{{classe.cor}}"
```

```html
class=""></div>
                                                <small>
                                                <!--<div ng-
if="classe.maximo==classe.minimo && classe.maximo==0" style="text-
align:right;font-size:75%;">{{classe.minimo | setDecimal: 1}}</div>-->
                                                <div ng-
mouseover="realcarClasse(classe)" ng-mouseleave="deixarClasse()" style="text-
align:left;font-size:75%;">{{classe.minimo | setDecimal: 1}}-{{classe.maximo |
setDecimal: 1}}</div>
                                                </small>
                                        </div>
                                        <div
style="width:10%;float:left;padding-left:5px">

        <small>({{indicador.simbolo_valor}})</small>
                                        </div>
                                </div>
                                <!--<div class="row">
                                        <div class="col-md-12" style="padding-
left:5px;padding-right:5px;">
                                                <small>Nota técnica:
{{indicador.nota_tecnica_resumida}}</small>
                                        </div>
                                </div>-->
                                <div class="row">
                                        <div class="col-md-12" style="padding-
left:5px;padding-right:5px;">


                                                <small><small>Base
cartográfica: Mapa Digital de São Paulo, 2004. <div style="margin-top:-
0.5em">Projeção Datum UTM/23S. Datum horizontal SAD69.</span></small></small>
                                                </div>
                                        </div>
                                </div>
                        </div>
</script>



        <div uib-carousel active="0" interval="0" no-wrap="false">
                <div uib-slide data-ng-repeat="noticia in noticias track by
$index" index="$index" class="slide-carrosel container-fluid">
                        <div class="carousel-caption">
                                <h4 class="text-uppercase" ng-bind-
html="noticia.title.rendered | trustedHtml"></h4>
```

```html
                                <p ng-bind-html="noticia.content.rendered |
trustedHtml"></p>
                    </div>
            </div>
        </div>


        <div class="container">
                <hr>
                <p> Escolha a forma como deseja visualizar os indicadores </p>
                <hr>


                <uib-tabset active="tabAtivaForma" type="pills">
                        <uib-tab index="$index + 1" ng-repeat="item in
menuForma.items" heading="{{item.title}}" classes="{{item.classes}}">
                                <hr>

                                <p ng-show="tabAtivaForma==1">
                                        <ul class="list-group row">
                                                <li class="list-group-item col-sm-3
text-left list-visualizacao" ng-mouseover="this.hover=true" ng-
mouseleave="this.hover=false" style="width:20%;" ng-repeat="itemFilho in
item.children"><a href=""  ng-
click="cargaEstrategia(itemFilho.url.slice(1,itemFilho.url.length))"> <img
class="img-responsive icones-visualizacao col-sm-3"  ng-
src="/app/themes/monitoramento_pde/images/icones/{{itemFilho.description +
((itemFilho.url.slice(1,itemFilho.url.length) == estrategia.id_grupo_indicador
|| this.hover)? '_cor' : '_pb')}}.png"><span class="col-sm-12"
style="padding:0"><br><strong>{{itemFilho.title}}</strong></span></a> </li>

                                        </ul>
                                </p>

                                <p ng-show="tabAtivaForma==2">
                                        Os Instrumentos de Política Urbana e Gestão
Ambiental são meios para viabilizar a efetivação dos princípios e objetivos do
Plano Diretor. <br><br> Veja abaixo a lista dos instrumentos:<br><br>
                                        <select style="min-width:250px;max-
width:400px;" data-ng-model="optInstrumento" data-ng-
options="instrumento.id_grupo_indicador as instrumento.nome for instrumento in
instrumentos | orderBy: '-nome' : true" ng-
change="cargaCadastroIndicadores(optInstrumento)"><option
value="">Todos</option></select>
                                </p>
                        </uib-tab>
                </uib-tabset>
```

```html
<span ng-show="tabAtivaForma==1">
        <hr>


                <h4 class="titulo-forma-
visu">{{estrategia.nome}}</h3>


        <div class="row" >
                <div class="col-sm-6 col-xs-12" >
                <p >{{estrategia.descricao}} </p>
                <h4 id="saiba-mais"><a href="" class="link-saiba-
mais" ng-click="abrirModal('estrategia')"> Saiba mais sobre essa estratégia
</a></h4>
                </div><!--
                --><div class="col-sm-6 col-xs-12" >

                        <div><a href="" ng-
click="abrirModal('estrategia')"><img class="img-responsive"
src="{{estrategia.link_imagem}}" alt="{{estrategia.nome}}"></a></div>
                        <!--<div class="row">
                                <a class="col-md-3 link-saiba-mais
text-center" href="{{estrategia.link_texto_lei}}" target="_blank"><img
class="img-responsive icones-saiba-mais"
src="/app/themes/monitoramento_pde/images/icones/texto-lei.png"> Texto da lei
ilustrado </a>
                                <a class="col-md-3 link-saiba-mais
text-center" href="{{estrategia.link_perguntas_respostas}}" target="_blank"><img
class="img-responsive icones-saiba-mais"
src="/app/themes/monitoramento_pde/images/icones/perguntas-respostas.png">
Perguntas e Respostas </a>
                                <a class="col-md-3 link-saiba-mais
text-center" href="{{estrategia.link_infografico}}" target="_blank"><img
class="img-responsive icones-saiba-mais"
src="/app/themes/monitoramento_pde/images/icones/infografico.png"> Infográficos
</a>
                                <a class="col-md-2 link-saiba-mais
text-center" href="{{estrategia.link_video}}" target="_blank"><img class="img-
responsive icones-saiba-mais"
src="/app/themes/monitoramento_pde/images/icones/video.png"> Vídeo </a>
                        </div>-->
                </div>
        </div>
    </span>

    <hr>
```

```html
<h4> <strong>Indicadores </strong></h4>

<uib-accordion close-others="true">



                <div uib-accordion-group is-open="indicador.aberto"
class="panel-default" close-others="true" ng-repeat="indicador in indicadores">
                    <uib-accordion-heading>
                        <span class="header-painel-indicadores" >
{{indicador.nome}} <br> <small>Instrumento: {{indicador.instrumento}} </small>
                            <i class="pull-right glyphicon" ng-
class="{'glyphicon-chevron-up': indicador.aberto, 'glyphicon-chevron-down':
!indicador.aberto}"></i>
                        </span>
                    </uib-accordion-heading>
                        <div ng-include
onload="atualizarAccordion(indicador);atribuirRegiaoSemSelecao()"
src="indicador.aberto ? 'indicador.html' : ''"></div>
                    <!--<div uib-accordion-group class="panel-default"
heading=" {{indicador.nome}}   |   Instrumento:
{{indicador.nome_fonte_dados}}"  ng-repeat="indicador in indicadores">-->

            </div>
        </uib-accordion>



        <!--<div class="row" style="margin:0;">

            <hr>
            <div class="row">
                <div class="row">
                    <div class="col-sm-11" style="display:inline-
block;float:none;">
                        <h4 style="padding-left:15px;">
<strong> Ações Prioritárias </strong> </h4>
                    </div>--><!--
                    --><!--<div class="col-sm-1 text-center"
style="display:inline-block;float:none;vertical-align:middle;padding-
right:30px;">
                        <strong> Situação </strong>
                    </div>
                </div>
                <ul class="list-group">
                    <li class="list-group-item row list-
pontilhada" data-ng-repeat="acao in acoesPrioritarias | orderBy: 'artigo' |
```

```
                limitTo:5 ">

                                                    <div class="col-sm-10 acao-
prioritaria"> {{acao.nome}} </div>
                                                    <div class="col-sm-1 acao-prioritaria
text-center"> {{acao.artigo}} </div>
                                                    <div class="col-sm-1 acao-prioritaria
text-center"> {{acao.andamento}}</div>
                                        </li>
                                </ul>
                        </div>
                        <a class="link-saiba-mais link-saiba-mais-indicador"
href="/acoes-prioritarias"><span class="glyphicon glyphicon-plus-sign"></span>
Clique aqui para ver todas as ações prioritárias </a>

                </div>-->

        </div>


    </div>
```

Page-no-header.php

```php
<?php
    /**
     * Template Name: Default sem título
     */
    ?>



    <?php while (have_posts()) : the_post(); ?>
      <?php get_template_part('templates/content', 'page'); ?>
    <?php endwhile; ?>
```

Page-header.php

```php
<?php use
Roots\Sage\Titles;
?>



            <div class="page-header">
              <h3 class="titulo-pagina"><?= Titles\title(); ?></h3>
            </div>
```

Indicadores.php

```php
<?php
    /**
     * Template Name: Indicadores
     */
?>


    <?php while (have_posts()) : the_post(); ?>
      <?php get_template_part('templates/page', 'header'); ?>
      <?php get_template_part('templates/content', 'indicadores'); ?>
    <?php endwhile; ?>
```

Header.php

```html
<header class="banner">
            <nav class="navbar navbar-default">
              <div class="container">
                                <div class="navbar-header"
            style="width:100%;">
                                        <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".menu-secoes-toggle">
                                            <span class="icon-bar"></span>
                                            <span class="icon-bar"></span>
                                            <span class="icon-bar"></span>
                                        </button>
                                        <a class="navbar-brand text-uppercase brand-title" href="<?= esc_url(home_url('/')); ?>"><?php bloginfo('name'); ?></a>
                                        <div class="menu-secoes-toggle collapse navbar-collapse">
                                            <a class="navbar-brand navbar-right" href="http://prefeitura.sp.gov.br"><img class="img-responsive" id="navbar-prefeitura" src="../app/uploads/2016/08/prefeitura.png" alt="link prefeitura de são paulo"></a>
                                            <!--<a class="navbar-brand navbar-right" href="http://gestaourbana.prefeitura.sp.gov.br"><img class="img-responsive" id="navbar-gestao" src="../app/uploads/2016/08/gestao_urbana.png" alt="link gestão urbana"></a>-->
                                        </div>
```

```php
            </div>

        <?php
        if (has_nav_menu('secoes')) :
          wp_nav_menu(['theme_location' => 'secoes',
                                  'menu_class' => 'nav nav-
pills',
                                  'container_class' => 'collapse
navbar-collapse menu-secoes-toggle',
                                  'container_id' => 'container-
secoes']);
        endif;
        ?>


      </div>
    </nav>


        <script>

(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||fu
nction(){
  (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new
Date();a=s.createElement(o),

m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.inser
tBefore(a,m)
  })(window,document,'script','https://www.google-
analytics.com/analytics.js','ga');
  ga('create', 'UA-96225593-1', 'auto');
  ga('send', 'pageview');
        </script>
</header>
```

Head.php

```php
<head>
        <meta charset="utf-8">
        <meta http-equiv="x-ua-compatible" content="ie=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1">
          <meta name="description" content="<?php bloginfo('description'); ?>"
      />
```

```php
        <?php wp_head(); ?>
    </head>
```

Footer.php

```php
<footer class="content-info"
style="width:100%;background-
color:#f8f8f8">
                    <div class="container" style="padding-
top:15px;padding-bottom:15px;">
                            <div class="row">
                                    <div class="col-sm-3 text-
center">
                                            <div class="row"
style="height:80px;margin-bottom:15px;">
                                                    <div class="col-
sm-12" >
                                                            <a
href="http://gestaourbana.prefeitura.sp.gov.br"><img
class="img-responsive" src="<?php echo
get_template_directory_uri();
?>/images/gestao_urbana.png" alt="link gestão
urbana"></a>
                                                    </div>
                                            </div>
                                            <div class="row">
                                                    <div class="col-
sm-12">
                                                            <a
href="http://prefeitura.sp.gov.br" ><img class="img-
responsive" src="<?php echo
get_template_directory_uri();
?>/images/prefeitura.png" alt="link prefeitura de são
paulo"></a>
                                                    </div>
                                            </div>
                                    </div>
                                    <div class="col-sm-5">
                                            <div class="row">
                                                    <div class="col-
sm-12" style="height:80px;margin-bottom:15px;">
                                                            <a
href="#" class="link-rodape">Termos de Uso </a>
                                                            <a
href="#" class="link-rodape">Contato</a>
                                                            <a
```

```html
                        href="#" class="link-rodape">Mapa do site</a>
                                    </div>
                                </div>
                                <div class="row">
                                    <div class="col-
sm-12">

                                        <p>
Secretaria Municipal de Urbanismo e Licenciamento
(SMUL) <br>

        Prefeitura de São Paulo <br>
                            Rua São Bento, 405,
Centro - 22º andar <br>
                                                    CEP
01011-100 - São Paulo - SP <br>

        Telefone: (11) 3113 7500
                                        </p>
                                    </div>
                                </div>
                            </div>
                            <div class="col-sm-4">
                                <div class="row">
                                    <div class="col-
sm-12" style="height:80px;margin-bottom:15px;">
                                        <p>Redes
Sociais:
                                            <a
href="https://www.facebook.com/PrefSP.smul"><i
class="fa fa-facebook img-circle icones-redes-
sociais"></i></a>
                                            <a
href="https://twitter.com/PrefSP.smul"><i class="fa
fa-twitter img-circle icones-redes-sociais"></i></a>
                                            <a
href="http://www.youtube.com/user/pmspsmdu"><i
class="fa fa-play icones-redes-sociais"></i></a>
                                        </p>
                                    </div>
                                </div>
                                <div class="row">
                                    <div class="col-
sm-12">
                                        <p>Todo o
conteúdo do site está disponível sob a licença
Creative Commons. Acesse a página <a href="#"
```

```
                               style="color:#db2c30">Desenvolvimento</a> e saiba
                           mais.
                                                                  </p>
                                                      </div>
                                                  </div>
                                          </div>
                                      </div>
                                      <div class="row">
                                              <div class="col-sm-3 text-
                           center">

                                              </div>
                                              <div class="col-sm-5">


                                              </div>
                                              <div class="col-sm-4">


                                              </div>
                                      </div>
                                  </div>
                                   <?php dynamic_sidebar('sidebar-footer'); ?>
                           </footer>
```

Dados-abertos.php

```php
<?php
        /**
         * Template Name: Dados abertos
         */
        ?>



        <?php while (have_posts()) : the_post(); ?>
          <?php get_template_part('templates/page', 'header'); ?>
          <?php get_template_part('templates/content', 'dados-abertos'); ?>
        <?php endwhile; ?>
```

Content.php

```php
<article
<?php
post_class();
?>>
                <header>
```

```php
    <h2 class="entry-title"><a href="<?php the_permalink(); ?>"><?php
the_title(); ?></a></h2>
      <?php get_template_part('templates/entry-meta'); ?>
    </header>
    <div class="entry-summary">
      <?php the_excerpt(); ?>
    </div>
  </article>
```

Content-single.php

```php
<?php while
(have_posts())
: the_post();
?>
            <article <?php post_class(); ?>>
              <header>
                <h1 class="entry-title"><?php the_title(); ?></h1>
                <?php get_template_part('templates/entry-meta'); ?>
              </header>
              <div class="entry-content">
                <?php the_content(); ?>
              </div>
              <footer>
                <?php wp_link_pages(['before' => '<nav class="page-nav"><p>' .
          __('Pages:', 'sage'), 'after' => '</p></nav>']); ?>
              </footer>
              <?php comments_template('/templates/comments.php'); ?>
            </article>
          <?php endwhile; ?>
```

Content-search.php

```php
<article
<?php
post_class();
?>>
            <header>
              <h2 class="entry-title"><a href="<?php the_permalink(); ?>"><?php
          the_title(); ?></a></h2>
              <?php if (get_post_type() === 'post') {
          get_template_part('templates/entry-meta'); } ?>
            </header>
            <div class="entry-summary">
              <?php the_excerpt(); ?>
            </div>
```

```
                    </article>
```

Content-page.php

```php
<div
class="content-
page container
text-justify">
          <?php the_content(); ?>
          </div>
          <?php wp_link_pages(['before' => '<nav class="page-nav"><p>' .
          __('Pages:', 'sage'), 'after' => '</p></nav>']); ?>
```

Content-indicadores.php

```php
<script
type="text/javascript"
>
                    jQuery.noConflict();
                    var app = angular.module('monitoramentoPde',
                    ['ngResource','ngAnimate','ui.bootstrap','angular.filter'])
                    ;
                    app.factory('Indicador',function($resource){
                         return $resource('/wp-
                    json/monitoramento_pde/v1/indicador/:id');
                    });
                    app.factory('Menu',function($resource){
                         return $resource('/wp-json/wp-api-
                    menus/v2/menus/:id');
                    });
                    app.controller("indicadores", function($scope, $http,
                    $filter, Indicador, Menu) {
                         Indicador.query(function(indicadores) {
                              $scope.indicadores = indicadores;
                              //$scope.cargaIndicadorValores();
                         });
                         Menu.get({id:4},function(menu){
                              $scope.menuForma = menu;
                         });

                         $scope.estrategias = [
                                   'socializar os ganhos da produção da
                    cidade',
                                   'assegurar o direito à moradia digna
                    para quem precisa',
                                   'melhorar a mobilidade urbana',
```

```
                            'qualificar a vida urbana dos
bairros',
                            'orientar o crescimento da cidade nas
proximidades do transporte público',
                            'reorganizar as dinâmicas
metropolitanas',
                            'promover o desenvolvimento econômico
da cidade',
                            'incorporar a agenda ambiental ao
desenvolvimento da cidade',
                            'preservar o patrimônio e valorizar as
iniciativas culturais',
                            'fortalecer a participação popular nas
decisões dos rumos da cidade'
        ];

        $scope.instrumentos = [
                            'fundurb',
                            'eixos de estruturação da
transformação urbana',
                            'zonas produtivas [zpi e zde]',
                            'perímetros de incentivo ao
desenvolvimento econômico',
                            'parcelamento, edificação e utilização
compulsórios',
                            'iptu progressivo no tempo',
                            'cota de solidariedade',
                            'zeis',
                            'regularização fundiária',
                            'tac',
                            'tca',
                            'eia-rima',
                            'zonas de proteção ambiental [zepam e
zep]',
                            'tdc',
                            'oodc',
                            'ouc',
                            'zepec',
                            'tombamento'
        ];

});
</script>


<style type="text/css">
```

```css
.panel-heading{
            background-color:#FFF !important;
            color:#000 !important;
            border-top-color:#211D1F !important;
            border-top-width:2px !important;
            border-top-style:dotted !important;
            border-left-width:0;
            border-right:0;
            border-bottom:0;
            font-size:85% !important;
            border-bottom-left-radius:0px !important;
            border-bottom-right-radius:0px !important;
            border-top-left-radius:0px !important;
            border-top-right-radius:0px !important;
    }
    .panel-heading:last-child{
            border-bottom-color:#211D1F !important;
            border-bottom-width:2px !important;
            border-bottom-style:dotted !important;
    }
</style>


<div class="content-page container text-justify" data-ng-
app="monitoramentoPde" data-ng-controller="indicadores">


<?php the_content(); ?>


            <p>
            Se desejar, filtre por estratégia
            <br>
            <select style="min-width:250px;max-
width:400px;" data-ng-model="optEstrategia" data-ng-
options="estrategia for estrategia in estrategias" >
            <option value="">Todas</option>
            </select>
            </p>
            <p>
            Ou por instrumento urbanístico e de gestão
ambiental
            <br>
            <select style="min-width:250px;max-
width:400px;" data-ng-model="optInstrumento" data-ng-
options="instrumento for instrumento in instrumentos">
```

```
<option value="">Todos</option>
</select>
</p>


<uib-accordion close-others="true">


<div uib-accordion-group is-
open="indicador.aberto" class="panel-default" close-
others="true" ng-repeat="indicador in indicadores">
<uib-accordion-heading>
<span class="cabecalho-
ficha-indicador"> {{indicador.nome}} </span>
<i class="pull-
right glyphicon" ng-class="{'glyphicon-chevron-up':
indicador.aberto, 'glyphicon-chevron-down':
!indicador.aberto}"></i>
</span>
</uib-accordion-heading>
<div class="col-sm-6">
<p>
Este indicador
visa apresentar como se dá a distribuição nas diferentes
partes do Município do Potencial Construtivo adicional
(PCA). Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum
Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum
Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum
Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum
Lorem ipsum Lorem ipsum Lorem ipsum
</p>


<h5><strong>Fórmula de cálculo </strong> </h5>
<p>(área grafada
como ZEPAM na Macrozona de Estruturação e Qualificação
Urbana)/(área grafada como ZEPAM no Município) * 100
</p>
<h5><strong>
Fontes </strong></h5>
<p>Lei Municipal
nº 16.402/16 - Lei de Parcelamento, Uso e Ocupação do Solo
IBGE -
Mapeamento do desenvolvimento econômico
</p>
<h5> <strong>
Nota técnica </strong></h5>
<p> Este
```

```html
indicador possui a limitação de não representar a
totalidade lorem ipsum lorem ipsum
                                        </p>
                                        </div>
                                        <div class="col-
sm-6">

                                        <h5> <strong>
Instrumento urbanístico relacionado </strong></h5>
                                        <p> Outorga
Onerosa do Direito de Construir (OODC) </p>
                                        <h5> <strong>
Categoria </strong></h5>

                                        <p> Arrecadação
de recursos </p>
                                    <h5> <strong> Unidades
de medida</strong></h5>
                                        <p> 1º fator de
cálculo: metros quadrados (m²) </p>
                                        <p> 2º fator de
cálculo: metros quadrados (m²) </p>
                                        <h5> <strong>
Periodicidade de atualização</strong> </h5>
                                        <p> anual </p>
                                        <h5> <strong>
Unidades de análise territorial (desagregação
espacial)</strong> </h5>
                                        <p> Município


       <br>Macroárea

       <br>Região

       <br>Subprefeitura

       <br>Distrito</p>
                                        </div>
                        <!--<div uib-accordion-group
class="panel-default"  heading=" {{indicador.nome}}  
|   Instrumento: {{indicador.nome_fonte_dados}}"  ng-
repeat="indicador in indicadores">-->

                        </div>
                </uib-accordion>


                <!--
```

```html
<div class="row" style="margin:0;">

                    <ul class="list-group">
                            <li class="list-group-
item row list-pontilhada" data-ng-repeat="indicador in
indicadores | orderBy: 'nome'">
                                    <div
class="row">
                                    <div class="col-
sm-12"> {{indicador.nome}} </div>
                                    </div>
                                    <div class="col-
sm-6">

                                    <p>
                                    Este indicador
visa apresentar como se dá a distribuição nas diferentes
partes do Município do Potencial Construtivo adicional
(PCA). Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum
Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum
Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum
Lorem ipsum Lorem ipsum Lorem ipsum

                                    </p>


        <h5><strong>Fórmula de cálculo </strong> </h5>
                                    <p>(área grafada
como ZEPAM na Macrozona de Estruturação e Qualificação
Urbana)/(área grafada como ZEPAM no Município) * 100
                                    </p>
                                    <h5><strong>
Fontes </strong></h5>

                                    <p>Lei Municipal
nº 16.402/16 - Lei de Parcelamento, Uso e Ocupação do Solo
                                    IBGE -
Mapeamento do desenvolvimento econômico
                                    </p>
                                    <h5> <strong>
Nota técnica </strong></h5>

                                    <p> Este
indicador possui a limitação de não representar a
totalidade lorem ipsum lorem ipsum
                                    </p>
                                    </div>
                                    <div class="col-
sm-6">

                                    <h5> <strong>
Instrumento urbanístico relacionado </strong></h5>
```

```
                                                <p> Outorga
Onerosa do Direito de Construir (OODC) </p>
                                            <h5> <strong>
Categoria </strong></h5>
                                            <p> Arrecadação
de recursos </p>
                                        <h5> <strong> Unidades
de medida</strong></h5>
                                            <p> 1º fator de
cálculo: metros quadrados (m²) </p>
                                            <p> 2º fator de
cálculo: metros quadrados (m²) </p>
                                            <h5> <strong>
Periodicidade de atualização</strong> </h5>
                                            <p> anual </p>
                                            <h5> <strong>
Unidades de análise territorial (desagregação
espacial)</strong> </h5>
                                            <p> Município

        <br>Macroárea

        <br>Região

        <br>Subprefeitura

        <br>Distrito</p>
                                            </div>
                                        </li>
                                    </ul>
                                </div>-->

                        </div>

            </div>
            <?php wp_link_pages(['before' => '<nav class="page-
nav"><p>' . __('Pages:', 'sage'), 'after' =>
'</p></nav>']); ?>
```

Content-dados-abertos.php

```
<script
type="text/javasc
ript">
                jQuery.noConflict();
                var app = angular.module('monitoramentoPde',
```

```javascript
['ngResource','ngAnimate','ui.bootstrap','angular.filter']);
app.factory('FontesDados', function($resource){
        return $resource('/wp-
json/monitoramento_pde/v1/fontes_dados/');
});
app.factory('DadoAberto', function($resource){
        return $resource('/wp-
json/monitoramento_pde/v1/dado_aberto/:fonte_dados');
});
app.factory('Instrumentos', function($resource){
        return $resource('/wp-
json/monitoramento_pde/v1/instrumentos/');
});
app.filter('trustedHtml',
    function($sce) {
      return function(ss) {
        return $sce.trustAsHtml(ss)
    };
});
app.controller("dadosAbertos", function($scope, $http, $filter,
FontesDados, DadoAberto) {

        FontesDados.query({ativa:true},function(fontesDados) {
                $scope.fontesDados = fontesDados;

        $scope.menuTipoDados = [
                {
                        titulo:'Banco de dados',
                        introducao: 'Os indicadores são fruto do
cálculo e cruzamento de dados organizados em bancos que alimentam
o sistema de monitoramento e avaliação. <br> Veja abaixo a lista
de bancos de dados. ',
                        tipoArquivo:['XLSX',' | CSV', ' | TXT'],
                        seletor:'instrumento',
                        dados:$scope.fontesDados

        //['oodc','tdc','tdc_certidoes','zepam','cota-
solidariedade'];
                },
                {
                        titulo:'Ficha técnica dos instrumentos',
                        introducao: 'Os Instrumentos Urbanísticos e
de Gestão Ambiental são meio para viabilizar a efetivação dos
princípios e objetivos do Plano Diretor.<br> Veja abaixo a lista
dos instrumentos. <br> Se desejar, filtre por estratégia: <br> ',
                        tipoArquivo:['DOC |','PDF'],
```

```
                        seletor:'estrategia',
                        dados:['Transferência do direito de
construir','Estudo de Impacto Ambiental','Estudo de viabilidade
ambiental', 'Avaliação ambiental estratégica']
                },
                {
                        titulo:'Ficha técnica dos indicadores',
                        introducao: 'Os indicadores de
monitoramento e avaliação contemplam, abordando a eficiência,
eficácia e efetividade, das diferentes dimensões de avaliação das
políticas públicas presentes no Plano Diretor. <br> Veja abaixo a
lista dos indicadores. <br> Se desejar, filtre por estratégia:
<br>            ',
                        tipoArquivo:['DOC','PDF'],
                        seletor:'estrategia',
                        dados:['Percentual de áreas grafadas como
ZEPAM','Variação da cobertura vegetal em ZEPAM', 'Densidade de
ZEPAM por habitante', 'Distribuição de usos nas áreas marcadas
como ZEPAM']
                }
        ];

        $scope.menuTipoDados[0].dados.push('Ficha Técnica dos
Instrumentos');

        $scope.item = $scope.menuTipoDados[0];

        $scope.estrategias = [
                        {id:1,nome:'Socializar os ganhos da
produção na cidade'},
                        {id:2,nome:'Assegurar o direito à moradia
digna para quem precisa'},
                        {id:3,nome:'Melhorar a mobilidade urbana'},
                        {id:4,nome:'Qualificar a vida nos
bairros'},
                        {id:5,nome:'Orientar o crescimento da
cidade nas proximidades do transporte público'},
                        {id:6,nome:'Reorganizar as dinâmicas
metropolitanas'},
                        {id:7,nome:'Promover o desenvolvimento
econômico da cidade'},
                        {id:8,nome:'Incorporar a agenda ambiental
ao desenvolvimento da cidade'},
                        {id:9,nome:'Preservar o patrimonio e
valorizar as iniciativas culturais'},
                        {id:10,nome:'Fortalecer a participação
```

```
popular nas decisoes dos rumos da cidade'}
        ];

    $scope.instrumentos = [
            {id:13,nome:'FUNDURB'},
            {id:12,nome:'Eixos de Estruturação da
Transformação Urbana [EETU]'},
            {id:18,nome:'Zonas Produtivas [ZPI+ZDE]'},
            {id:15,nome:'Perímetros de Incentivo ao
Desenvolvimento Econômico'},
            {id:16,nome:'Parcelamento, Edificação e Utilização
Compulsórios [PEUC]'},
            {id:14,nome:'IPTU Progressivo no Tempo'},
            {id:22,nome:'ZEIS'},
            {id:23,nome:'Regularização Fundiária'},
            {id:24,nome:'Termo de Compensação Ambiental
[TCA]'},
            {id:11,nome:'EIA-RIMA'},
            {id:19,nome:'ZEPAM'},
            {id:17,nome:'Transferência do Direito de Construir
[TDC]'},
            {id:26,nome:'Outorga Onerosa do Direito de
Construir [OODC]'},
            {id:25,nome:'Operação Urbana Consorciada [OUC]'},
            {id:21,nome:'ZEPEC'},
            {id:20,nome:'Tombamento'}
        ];

    });


            function Workbook() {
                    if(!(this instanceof Workbook)) return new
Workbook();

                    this.SheetNames = [];
                    this.Sheets = {};
            }

            function s2ab(s) {
                    var buf = new ArrayBuffer(s.length);
                    var view = new Uint8Array(buf);
                    for (var i=0; i!=s.length; ++i) view[i] =
s.charCodeAt(i) & 0xFF;
                    return buf;
            }
```

```javascript
function criarCelula(c, r, val){
    var cell = {v: val };

    if(cell.v == null) cell.v = '';

    if(typeof cell.v === 'number') cell.t =
'n';
    else if(typeof cell.v === 'boolean') cell.t
= 'b';
    else if(cell.v instanceof Date) {
        cell.t = 'n'; cell.z =
XLSX.SSF._table[14];
        cell.v = datenum(cell.v);
    }
    else cell.t = 's';

    return cell;
}


function sheet_from_array_of_objects(data, offset)
{
    var ws = {};
    var range = {s: {c:10000000, r:10000000},
e: {c:0, r:0 }};

    for(var R = 0; R <= data.length + 1; ++R) {
        C = 0;

        for(var prop in data[R]) {

if(prop.substring(prop.length-1,prop.length) <= offset ||
prop.substring(0,prop.length-1)!= 'Variavel'){
                if(range.s.r > R)
range.s.r = R;
                if(range.s.c > C)
range.s.c = C;
                if(range.e.r < R)
range.e.r = R;
                if(range.e.c < C)
range.e.c = C;

                if(typeof
data[R][prop] === 'function') continue;

                if(R == 0)
```

```javascript
                                        var cell = {v:
prop };
                                else
                                        var cell = {v:
data[R-1][prop] };

                                if(cell.v == null)
cell.v = '';
                                var cell_ref =
XLSX.utils.encode_cell({c:C,r:R});

                                if(typeof cell.v ===
'number') cell.t = 'n';
                                else if(typeof cell.v
=== 'boolean') cell.t = 'b';
                                else if(cell.v
instanceof Date) {
cell.z = XLSX.SSF._table[14];
                                        cell.t = 'n';
                                        cell.v =
datenum(cell.v);
                                }
                                else cell.t = 's';

                                ws[cell_ref] = cell;
                                C++;
                        }
                    }
                }

                if(range.s.c < 10000000) ws['!ref'] =
XLSX.utils.encode_range(range);
                return ws;
            }

        $scope.exportarDadoAberto = function(id_fonte, formato){

        DadoAberto.query({fonte_dados:id_fonte},function(dadoAbert
o) {
                    $scope.dadoAberto = dadoAberto;

                fonteDados =
$scope.item.dados.filter((fonteDados) =>
fonteDados.id_fonte_dados == id_fonte)[0];
                    var wb = new Workbook();
```

```javascript
                    wsDadoAberto =
sheet_from_array_of_objects(dadoAberto,0);
                    wb.SheetNames.push('dados');
                    wb.Sheets['dados'] = wsDadoAberto;

                    switch(formato){
                        case 'XLSX':
                            extensaoArquivo = 'xlsx';
                            var wbout = XLSX.write(wb,
{bookType:'xlsx', bookSST:false, type: 'binary'});
                            break;
                        case ' | CSV':
                            extensaoArquivo = 'csv';
                            var wbout =
XLSX.utils.sheet_to_csv(wsDadoAberto,{FS:";"});
                            break;
                        case ' | TXT':
                            extensaoArquivo = 'txt';
                            var wbout =
XLSX.utils.sheet_to_csv(wsDadoAberto,{FS:"\t"});
                            break;
                    }

                    saveAs(new
Blob([s2ab(wbout)],{type:"application/octet-stream"}),
fonteDados.nome_tabela + '.'  + extensaoArquivo);

                });
        }

});
</script>




<div class="content-page container text-justify" data-ng-
app="monitoramentoPde" data-ng-controller="dadosAbertos">
<?php the_content(); ?>


    <!--<uib-tabset active="active" type="pills">
            <uib-tab index="$index + 1" ng-repeat="item in
menuTipoDados" heading="{{item.titulo}}"
classes="{{item.classes}}">-->
```

```html
                                <p><span ng-bind-html="item.introducao |
trustedHtml"></span>


                                </p>
                                <ul class="list-group">

                                <li class="list-group-item row list-
pontilhada" data-ng-repeat="dado in item.dados | orderBy:
'nome'">
                                        <div class="col-sm-10">
{{!dado.nome? dado : dado.nome}} </div>
                                        <div class="col-sm-2 text-center">
<a href="" ng-
click="exportarDadoAberto(dado.id_fonte_dados,formato)" data-ng-
repeat="formato in item.tipoArquivo"> <strong> {{formato}}
</strong></a> </div>


                                </li>

                        </ul>

                                <!--<hr>
                                <ul class="list-group row">
                                        <li class="list-group-item col-sm-3
text-left list-visualizacao" ng-repeat="itemFilho in
item.children"><a href="{{itemFilho.url}}" class="row"> <img
class="img-responsive icones-visualizacao col-sm-3"
src="/app/themes/monitoramento_pde/images/icones/{{itemFilho.desc
ription}}.png"><span class="col-sm-
9"><strong>{{itemFilho.title}}</strong></span></a> </li>

                                </ul>-->
                        <!--</uib-tab>
                </uib-tabset>-->


</div>
<?php wp_link_pages(['before' => '<nav class="page-nav"><p>' .
__('Pages:', 'sage'), 'after' => '</p></nav>']); ?>
```

Content-acoes-prioritarias.php

```html
<script
type="text/javascript"
```

```
>
                                        jQuery.noConflict();
                                        var app = angular.module('monitoramentoPde',
                                        ['ngResource','ngAnimate','ui.bootstrap','angular.filter'])
                                        ;
                                        app.factory('AcaoPrioritaria', function($resource){
                                                return $resource('/wp-
                                        json/monitoramento_pde/v1/acoes_prioritarias/');
                                        });
                                        app.controller("acoesPrioritarias", function($scope, $http,
                                        $filter, AcaoPrioritaria) {

                                            AcaoPrioritaria.query(function(acoesPrioritarias){
                                                    $scope.acoesPrioritarias = acoesPrioritarias;
                                                    $scope.acoesFiltro =
                                        $scope.acoesPrioritarias;
                                             });

                                            $scope.optCategoria = null;
                                            $scope.optEstrategia = null;
                                            $scope.optAndamento = null;
                                            $scope.optArtigo = null;
                                            $scope.optTema = null;

                                            $scope.cargaAcoesPrioritarias = function(){

                                                    filtroCategoria = !$scope.optCategoria? null
                                        : $scope.optCategoria.categoria;
                                                    filtroEstrategia = !$scope.optEstrategia?
                                        null : $scope.optEstrategia.objetivo_relacionado;
                                                    filtroAndamento = !$scope.optAndamento? null
                                        : $scope.optAndamento.andamento;
                                                    filtroArtigo = !$scope.optArtigo? null :
                                        $scope.optArtigo.artigo;
                                                    filtroTema = !$scope.optTema? null :
                                        $scope.optTema.tema;


                                            AcaoPrioritaria.query({categoria:filtroCategoria,
                                        estrategia:filtroEstrategia, andamento:filtroAndamento,
                                        artigo:filtroArtigo,
                                        tema:filtroTema},function(acoesPrioritarias){
                                                     $scope.acoesFiltro = acoesPrioritarias;
                                                    });
                                            };
```

```
});
</script>


<div class="content-page container text-justify" data-ng-
app="monitoramentoPde" data-ng-
controller="acoesPrioritarias">
<?php the_content(); ?>


<div class="row" style="margin:0;">

        <hr>
        <div class="row">
                <div class="row">
                        <label for="estrategia" class="col-sm-
12 acao-prioritaria" style="display:inline-
block;float:none;vertical-align:middle;">
                                <strong> Estrategia </strong>
                        </label>
                </div>
                <div class="row">
                        <div class="col-sm-6 text-center"
class="acao-prioritaria" style="display:inline-
block;float:none;vertical-align:middle;">
                                <select style="width:100%;"
data-ng-model="optEstrategia" class="acao-prioritaria"
data-ng-options="acao.objetivo_relacionado for acao in
acoesPrioritarias | unique: 'objetivo_relacionado' |
filter: {objetivo_relacionado:''}" data-ng-
change="cargaAcoesPrioritarias()" name="estrategia"
id="estrategia">
                                        <option value="">Todas</option>
                                        </select>
                        </div>
                </div>
                <div class="row">
                        <div class="col-sm-6"
style="display:inline-block;float:none;">
                        <div class="col-sm-1 text-center"
style="display:inline-block;float:none;vertical-
align:middle;">
                                <!--<select style="max-
width:100%;" data-ng-model="optEstrategia" data-ng-
options="acao.estrategia for acao in acoesPrioritarias |
unique: 'estrategia' | filter: {estrategia:''}" data-ng-
```

```html
change="cargaAcoesPrioritarias()" name="estrategia">
                            <option value="">Todos</option>
                            </select>-->
                </div>

                        <h4 style="padding-left:15px;">
<strong> Ação </strong> </h4>
                </div><!--
                --><div class="col-sm-2 acao-
prioritaria" style="display:inline-
block;float:none;vertical-align:middle;">
                            <strong> Artigo </strong>
                </div><!--
                --><label for="tema" class="col-sm-3
acao-prioritaria" style="display:inline-
block;float:none;vertical-align:middle;padding-left:7px">
                            <strong> Tema </strong>
                </label><!--
                --><label for="categoria" class="col-
sm-1 acao-prioritaria" style="display:inline-
block;float:none;vertical-align:middle;padding-left:0">
                            <strong> Categoria </strong>
                </label>
        </div>

        <div class="row">
                <div class="col-sm-6"
style="display:inline-block;float:none;">
                </div><!--
                --><div class="col-sm-2"
style="display:inline-block;float:none;">
                </div><!--
                --><!--<div class="col-sm-1 text-
center" style="display:inline-block;float:none;vertical-
align:middle;padding-right:0px;">
                            <select style="width:100%;"
data-ng-model="optArtigo" data-ng-options="acao.artigo for
acao in acoesPrioritarias | unique: 'artigo' | filter:
{artigo:''}" data-ng-change="cargaAcoesPrioritarias()"
name="artigo">
                            <option value="">Todos</option>
                            </select>
                </div>--><!--
                --><div class="col-sm-3 text-center"
class="acao-prioritaria-cbo" style="display:inline-
block;float:none;vertical-align:middle;padding-left:7px">
```

```html
                                            <select style="width:100%;"
data-ng-model="optTema" class="acao-prioritaria" data-ng-
options="acao.tema for acao in acoesPrioritarias | unique:
'tema' | filter: {tema:''}" data-ng-
change="cargaAcoesPrioritarias()" name="tema" id="tema">
                                                <option value="">Todos</option>
                                                </select>
                                    </div><!--
                                    --><div class="col-sm-1 text-center"
class="acao-prioritaria-cbo" style="display:inline-
block;float:none;vertical-align:middle;padding-left:0">
                                            <select style="width:100%;"
data-ng-model="optCategoria" data-ng-
options="acao.categoria for acao in acoesPrioritarias |
unique: 'categoria' | filter: {categoria:''}" data-ng-
change="cargaAcoesPrioritarias()" name="categoria"
id="categoria">
                                                <option value="">Todos</option>
                                                </select>
                                    </div>


                                    <!--<div class="col-sm-1 text-center"
style="display:inline-block;float:none;vertical-
align:middle;padding-right:30px;">
                                            <select style="max-width:100%;"
data-ng-model="optAndamento" data-ng-
options="acao.andamento for acao in acoesPrioritarias |
unique: 'andamento' | filter: {andamento:''}" data-ng-
change="cargaAcoesPrioritarias()" name="andamento">
                                                <option
value="">Todos</option>
                                                </select>
                                    </div>-->
                            </div>

                            <ul class="list-group">
                                    <li class="list-group-item row list-
pontilhada" data-ng-repeat="acao in acoesFiltro | orderBy:
'artigo'">
                                            <div class="col-sm-6 acao-
prioritaria"> {{acao.acao_prioritaria_estrategica}} </div>
                                            <div class="col-sm-2 acao-
prioritaria"> <small>{{acao.artigo}}</small> </div>
                                            <div class="col-sm-3 acao-
prioritaria"> {{acao.tema}} </div>
                                            <div class="col-sm-1 acao-
```

```
                                prioritaria"> {{acao.categoria}} </div>
                                                <!--<div class="col-sm-1 acao-
                prioritaria text-center"> {{acao.andamento}}</div>-->
                                        </li>
                                </ul>
                        </div>

                </div>


                </div>


                <?php wp_link_pages(['before' => '<nav class="page-
                nav"><p>' . __('Pages:', 'sage'), 'after' =>
                '</p></nav>']); ?>
```

Cadastro_variavel.php

```
<?p
hp
    /**
     * Template Name: Cadastro Variável
     */
    ?>


    <script type="text/javascript">
    jQuery.noConflict();
    var app = angular.module('monitoramentoPde',
    ['ngResource','ngAnimate','ui.bootstrap','angular.filter']);
    app.factory('Variavel',function($resource){
            return $resource('/wp-
    json/monitoramento_pde/v1/variavel/:id',{id:'@id_variavel'},{
                    update:{
                            method:'PUT'
                    }
            });
    });
    app.factory('FontesDados',function($resource){
            return $resource('/wp-json/monitoramento_pde/v1/fontes_dados');
    });
```

```javascript
app.factory('VariavelFiltro',function($resource){
        return $resource('/wp-
json/monitoramento_pde/v1/variavel_filtro/:id',{id:'@id_variavel'},{
                update:{
                        method:'PUT'
                }
        });
});
app.controller("cadastroVariavel", function($scope, $rootScope, $http,
$filter, $uibModal, Variavel, FontesDados, VariavelFiltro) {

        Variavel.query(function(variaveis) {
                        $rootScope.listaVariaveis = variaveis;
                  $rootScope.variaveis = variaveis;
        });

        FontesDados.query(function(fontesDados){
                $scope.fontesDados = fontesDados;
        });

        $scope.estado = "listar";

        $scope.carregar = function(){
                $scope.itemAtual = $rootScope.variaveis.filter((variavel) =>
variavel.id_variavel == $scope.idItemAtual)[0];
                if($scope.itemAtual.tipo_cruzamento == 'full outer')
                        $scope.check_tipo_cruzamento = true;
                else
                        $scope.check_tipo_cruzamento = false;

                if($scope.itemAtual != null){
                        $scope.carregarFonteDados();

        VariavelFiltro.query({id:$scope.itemAtual.id_variavel},function(varia
velFiltro){
                                $scope.variavelFiltro = variavelFiltro;
                                $scope.estado = "selecionar";
                        });
                }else{
                        $scope.fonteDados = null;
                        $scope.variavelFiltro = null;
                }
        };

        $scope.filtrarFonte = function(){
                if($scope.idFonteAtivo != null)
```

```javascript
                    $rootScope.variaveis =
$rootScope.listaVariaveis.filter((variavel) => variavel.id_fonte_dados ==
$scope.idFonteAtivo);
            else
                    $rootScope.variaveis = $rootScope.listaVariaveis;
    }

    $scope.adicionarElemento = function(){
            $scope.variavelFiltro.push({});
    };

    $scope.carregarFonteDados = function(){
            $scope.fonteDados = $scope.fontesDados.filter((fonteDados) =>
fonteDados.id_fonte_dados == $scope.itemAtual.id_fonte_dados)[0];
    };

    $scope.confirmarModal = function(acao){
            $rootScope.modalConfirmacao = $uibModal.open({
                        animation: true,
                        ariaLabelledBy: 'modal-titulo-variavel',
                        ariaDescribedBy: 'modal-corpo-variavel',
                        templateUrl: 'ModalConfirmacao.html',
                        controller: 'cadastroVariavel',
                        scope:$scope,
                        size: 'md',
            });
            $scope.acao = acao;
    };

    $scope.limparForm = function(){
            $scope.itemAtual = null;
            $scope.variavelFiltro = [];
            $scope.estado = "inserir";
    };

    $scope.atualizar = function(){
            $rootScope.itemAtual = $scope.itemAtual;


    VariavelFiltro.update({filtro:$scope.variavelFiltro,id_variavel:$scop
e.itemAtual.id_variavel}).$promise.then(
                    function(mensagem){

    Variavel.update({variavel:$rootScope.itemAtual}).$promise.then(
                                function(mensagem){
                                        alert('A variável foi atualizada
```

```
com sucesso.');

            Variavel.query(function(variaveis) {
                                    $rootScope.variaveis =
variaveis;

                                    $scope.filtrarFonte();
                        });
                },
                function(erro){
                    alert('Ocorreu um erro ao
atualizar a variável. Mensagem de erro:\n\n' + erro.data);
                    }
            );
        },
        function(erro){
            alert('Ocorreu um erro ao atualizar os filtros
da variável. Mensagem de erro:\n\n' + erro.data);
            }
    );
    };

    $scope.remover = function(){
        $rootScope.itemAtual = $scope.itemAtual;

    VariavelFiltro.remove({id:$scope.itemAtual.id_variavel}).$promise.the
n(
            function(mensagem){

    Variavel.remove({id:$rootScope.itemAtual.id_variavel}).$promise.then(
                    function(mensagem){
                        alert('A variável foi removida
com sucesso.');

            Variavel.query(function(variaveis) {
                                    $rootScope.variaveis =
variaveis;
                                    $scope.filtrarFonte();
                        });
                },
                function(erro){
                    alert('Ocorreu um erro ao remover
a variável. Mensagem de erro:\n\n' + erro.data);
                    }
            );
        },
```

```javascript
						function(erro){
								alert('Ocorreu um erro ao remover os filtros da
variável. Mensagem de erro:\n\n' + erro.data);
						}
				);
				$scope.$parent.idItemAtual = null;
				$scope.$parent.estado = "listar";
		};
		$scope.inserir = function(){
				$rootScope.variavelFiltro = $scope.variavelFiltro;
				Variavel.save({variavel:$scope.itemAtual}).$promise.then(
						function(mensagem){

		VariavelFiltro.save({filtro:$rootScope.variavelFiltro,id_variavel:men
sagem.id_variavel}).$promise.then(
												function(mensagem){
														alert('A variável foi
inserida com sucesso.');
												},
												function(erro){
														alert('Ocorreu um erro ao
salvar os filtros da variável. Mensagem de erro:\n\n' + erro.data);
												}
										);
										Variavel.query(function(variaveis) {
												$rootScope.variaveis = variaveis;
												$scope.filtrarFonte();
										});
								},
								function(erro){
										alert('Ocorreu um erro ao inserir a variável.
Mensagem de erro:\n\n' + erro.data);
								}
						);
				$scope.$parent.estado = "listar";
				$scope.carregar();
		};
		$scope.voltar = function(){
				$scope.estado = "listar";
		};
		$scope.fecharModal = function(){
				$rootScope.modalConfirmacao.close();
		};
		$scope.ativarCruzamento = function(){
				if($scope.itemAtual.tipo_cruzamento == 'full outer')
						$scope.itemAtual.tipo_cruzamento = 'inner';
```

```javascript
                else
                        $scope.itemAtual.tipo_cruzamento = 'full outer';
}

$scope.submeter = function(){
        if($scope.acao == 'Atualizar')
                $scope.atualizar();
        else
                if($scope.acao == 'Remover')
                        $scope.remover();
                else
                        if($scope.acao == 'Inserir')
                                $scope.inserir();

        $rootScope.modalConfirmacao.close();
};

$scope.desabilitarContagem = function(){
        if($scope.itemAtual.operacao_agregacao == 'contagem')
                $scope.itemAtual.coluna_valor = null;
};

$scope.deletarElemento = function(indice){
        $scope.variavelFiltro.splice(indice,1);
};

function Workbook() {
        if(!(this instanceof Workbook)) return new Workbook();
        this.SheetNames = [];
        this.Sheets = {};
}

function criarCelula(c, r, val){
        var cell = {v: val };

        if(cell.v == null) cell.v = '';

        if(typeof cell.v === 'number') cell.t = 'n';
        else if(typeof cell.v === 'boolean') cell.t = 'b';
        else if(cell.v instanceof Date) {
                cell.t = 'n'; cell.z = XLSX.SSF._table[14];
                cell.v = datenum(cell.v);
        }
        else cell.t = 's';

        return cell;
```

```javascript
        }

    function s2ab(s) {
            var buf = new ArrayBuffer(s.length);
            var view = new Uint8Array(buf);
            for (var i=0; i!=s.length; ++i) view[i] = s.charCodeAt(i) &
0xFF;
            return buf;
        }

    $scope.exportarVariaveis = function(){

            var wb = new Workbook();

            var wsvariavel = {};

            //criando cabeçalho
            wsvariavel[XLSX.utils.encode_cell({c:0 ,r:0})] =
criarCelula(0 ,0,'ID');
            wsvariavel[XLSX.utils.encode_cell({c:1 ,r:0})] =
criarCelula(1 ,0,'Nome');
            wsvariavel[XLSX.utils.encode_cell({c:2 ,r:0})] =
criarCelula(2 ,0,'Banco de dados');
            wsvariavel[XLSX.utils.encode_cell({c:3 ,r:0})] =
criarCelula(3 ,0,'Coluna de valor');
            wsvariavel[XLSX.utils.encode_cell({c:4 ,r:0})] =
criarCelula(4 ,0,'Coluna de data');
            wsvariavel[XLSX.utils.encode_cell({c:5 ,r:0})] =
criarCelula(5 ,0,'Coluna de categorias');
            wsvariavel[XLSX.utils.encode_cell({c:6 ,r:0})] =
criarCelula(6 ,0,'Periodicidade');
            wsvariavel[XLSX.utils.encode_cell({c:7 ,r:0})] =
criarCelula(7 ,0,'Operação de agregação');
            wsvariavel[XLSX.utils.encode_cell({c:8 ,r:0})] =
criarCelula(8 ,0,'Variável acumulativa');
            wsvariavel[XLSX.utils.encode_cell({c:9 ,r:0})] =
criarCelula(9 ,0,'Variável denominador município');
            wsvariavel[XLSX.utils.encode_cell({c:10,r:0})] =
criarCelula(10 ,0,'Variável de crescimento');
            wsvariavel[XLSX.utils.encode_cell({c:11,r:0})] =
criarCelula(11,0,'Variável de cruzamento de banco de dados distintos');


            linha = 1;
```

```javascript
angular.forEach($rootScope.variaveis,function(variavel,chave){

    coluna = 0, //linha = 0;

wsvariavel[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,variavel.id_variavel);
    coluna++;

wsvariavel[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,variavel.nome);
    coluna++;

    var fonteDadosVariavel =
$scope.fontesDados.filter((fonteDados) => fonteDados.id_fonte_dados ==
variavel.id_fonte_dados)[0];
    if(fonteDadosVariavel){

wsvariavel[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,fonteDadosVariavel.nome);
    }
    coluna++;

wsvariavel[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,variavel.coluna_valor);
    coluna++;

wsvariavel[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,variavel.coluna_data);
    coluna++;

wsvariavel[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,variavel.coluna_dimensao);
    coluna++;

wsvariavel[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,variavel.periodicidade);
    coluna++;

wsvariavel[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,variavel.operacao_agregacao);
    coluna++;

wsvariavel[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,(variavel.acumulativa==true) ? 'X': null);
    coluna++;
```

```javascript
                wsvariavel[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,(variavel.distribuicao==true) ? 'X': null);
                        coluna++;


                wsvariavel[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,(variavel.crescimento==true) ? 'X': null);
                        coluna++;


                wsvariavel[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,(variavel.tipo_cruzamento!='inner') ? 'X': null);
                        coluna++;



                        linha++;

                });

                var range = {s: {c:0, r:0}, e: {c:11, r: linha}};
                wsvariavel['!ref'] = XLSX.utils.encode_range(range);

                /* add worksheet to workbook */
                wb.SheetNames.push('Variaveis');
                wb.Sheets['Variaveis'] = wsvariavel;



                var wbout = XLSX.write(wb, {bookType:'xlsx',
bookSST:false, type: 'binary'});

                saveAs(new Blob([s2ab(wbout)],{type:"application/octet-
stream"}), "variaveis.xlsx");
        }


});
</script>




<?php get_template_part('templates/page', 'header'); ?>


<div class="content-page container text-justify" data-ng-
app="monitoramentoPde" data-ng-controller="cadastroVariavel">
```

```html
<script type="text/ng-template" id="ModalConfirmacao.html">


<div class="modal-instrumento">
        <div class="modal-header">
    <h3 class="modal-title" id="modal-titulo-variavel"> {{acao}} variável
<button class="btn btn-danger pull-right" type="button" ng-
click="fecharModal()">X</button></h3>
        </div>
        <div class="modal-body" id="modal-corpo-variavel">
                        Você irá {{acao.toLowerCase()}} a variável
{{itemAtual.nome}}. <br><br> Confirme sua ação.
                        </div>
        <div class="modal-footer">
                <button class="btn btn-danger" type="button" ng-
click="fecharModal()">        Abortar</button>
                <button class="btn btn-success" type="button" ng-
click="submeter()">  Confirmar</button>
        </div>
</div>
</script>




<?php the_content(); ?>
<?php
                        $autorizado = false;
                        if(is_user_logged_in()){
                                $usuario = wp_get_current_user();
                                foreach($usuario->roles as $role) {
                                        if(strtolower($role) == 'administrator')
                                                $autorizado = true;
                                }
                        }else
                                $autorizado = false;

                        if($autorizado){
 ?>
<form>
                        <span data-ng-show="estado!='inserir'">
                                <div class="elemento-cadastro">

                                <button class="btn-primary" type="button" ng-
click="exportarVariaveis()"> Exportar relação de variáveis </button>
                                <br>
```

```html
                              <label for="fonte_filtro"> Filtrar por fonte de
dados </label>
                              <br>
                              <div class="descricao-cadastro"><small>Selecione
a fonte de dados que a variável pertence</small></div>

                              <select class="controle-cadastro" style="max-
width:100%;" data-ng-options="fonte.id_fonte_dados as fonte.nome for fonte
in fontesDados | orderBy: 'nome'" data-ng-model="idFonteAtivo" data-ng-
change="filtrarFonte()" id="fonte_filtro">
                                    <option value=""> Sem filtro </option>
                              </select>
                        </div>
                              <div class="elemento-cadastro" >


                              <label for="variavel"> Variável </label>

                              <div class="descricao-cadastro"><small>Selecione
a variável</small></div>

                              <select class="controle-cadastro" style="max-
width:100%;" data-ng-model="idItemAtual" data-ng-
options="variavel.id_variavel as variavel.nome for variavel in variaveis |
orderBy: 'nome'" data-ng-change="carregar()" id="variavel">
                                    <option value=""></option>
                                    </select>
                        </div>
                        </span>

                        <span data-ng-show="estado!='listar'">

                        <div class="elemento-cadastro">
                              <label for="nome"> Nome da variável </label>
                              <div class="descricao-cadastro"><small> Defina o
nome que a variável terá </small></div>
                              <input class="controle-cadastro" type="text"
style="max-width:100%;width:100%;" data-ng-model="itemAtual.nome"
id="nome"></input>
                        </div>

                        <div class="elemento-cadastro">
                              <label for="metrica"> Métrica </label>
                              <div class="descricao-cadastro"><small> Defina a
métrica da variável. </small></div>
```

```html
                                        <input type="text" class="controle-cadastro"
style="max-width:100%;width:100%;" data-ng-model="itemAtual.tipo_valor"
id="metrica"></input>
                        </div>

                        <div class="elemento-cadastro">
                                <label for="fonte_dados"> Banco de dados
</label>
                                <div class="descricao-cadastro"><small>Selecione
o banco de dados cadastrado que contêm as informações correspondentes à
variável</small></div>
                                <select class="controle-cadastro" style="max-
width:100%;" data-ng-options="fonte_dados.id_fonte_dados as fonte_dados.nome
for fonte_dados in fontesDados | orderBy: 'nome'" data-ng-
model="itemAtual.id_fonte_dados" data-ng-change="carregarFonteDados()"
id="fonte_dados"></select>
                        </div>

                        <span data-ng-show="fonteDados!=null">

                        <div class="elemento-cadastro" ng-
if="itemAtual.operacao_agregacao != 'contagem'">
                                <div style="margin-top:0;" class="descricao-
cadastro"><small>Selecione a coluna do banco de dados que contêm o
<u>valor</u> correspondente à variável.<br> Observação: caso a agregação da
variável seja 'contagem' deixar o campo em branco!</small></div>
                                <select class="controle-cadastro" style="max-
width:100%;" data-ng-options="coluna as coluna for coluna in
fonteDados.colunas" data-ng-model="itemAtual.coluna_valor"
id="coluna_valor">
                                </select>
                        </div>

                        <div class="elemento-cadastro">
                                <div style="margin-top:0;" class="descricao-
cadastro"><small>Selecione a coluna do banco de dados que contêm a
<u>data</u> correspondente à variável</small></div>
                                <select class="controle-cadastro" style="max-
width:100%;" data-ng-options="coluna as coluna for coluna in
fonteDados.colunas" data-ng-model="itemAtual.coluna_data" id="coluna_data">
                                        <option value=""></option>
                                </select>
                        </div>

                        <div class="elemento-cadastro">
                                <div style="margin-top:0;" class="descricao-
```

```
cadastro"><small>Selecione a coluna do banco de dados que contêm as
diferentes <u>categorias</u> no qual a variável está composta. <br>
Observação: Caso este campo seja deixado em branco a variável não será
dividida em categorias </small></div>
                                    <select class="controle-cadastro" style="max-
width:100%;" data-ng-options="coluna as coluna for coluna in
fonteDados.colunas" data-ng-model="itemAtual.coluna_dimensao"
id="coluna_dimensao">
                                    <option value=""></option>
                                    </select>
                        </div>

                        <div class="elemento-cadastro" ng-
if="fonteDados.tipos_territorio != null">
                                    <div style="margin-top:0;" class="descricao-
cadastro"><small>Selecione o tipo de território da fonte de dados
</small></div>
                                    <select class="controle-cadastro" style="max-
width:100%;" data-ng-options="tipo_territorio as tipo_territorio for
tipo_territorio in fonteDados.tipos_territorio" data-ng-
model="itemAtual.tipo_territorio" id="tipo_territorio">
                                    <option value=""></option>
                                    </select>
                        </div>

                        </span>
                        <div class="elemento-cadastro">
                                    <label for="periodicidade"> Periodicidade
</label>
                                    <div class="descricao-cadastro"><small>
Selecione a periodicidade com que a variável será atualizada </small></div>
                                    <select class="controle-cadastro" data-ng-
model="itemAtual.periodicidade" id="periodicidade">
                                                <option value="">Sem
data</option>
                                                <option
value="anual">Anual</option>
                                                <option
value="semestral">Semestral</option>
                                                <option
value="trimestral">Trimestral</option>
                                                <option
value="mensal">Mensal</option>
                                    </select>
                        </div>
                        <div class="elemento-cadastro">
```

```html
                                <label for="operacao_agregacao"> Operação de
agregação </label>
                                <br>


                                <div class="descricao-cadastro"><small>Selecione
a forma com que a varável agregará os dados correspondentes à coluna de
valor</small></div>
                                    <select class="controle-cadastro" data-
ng-model="itemAtual.operacao_agregacao" data-ng-
change="desabilitarContagem()" id="operacao_agregacao">
                                        <option value="soma">Soma</option>
                                        <option
value="contagem">Contagem</option>
                                        <option value="media">Média
aritmética</option>
                                        <option value="maximo">Máximo</option>
                                        <option value="minimo">Mínimo</option>
                                        </select>
                                <div style="margin-top:0.2em;" class="descricao-
cadastro">
                                            <small>
                                                <ul><li>Soma: calcula a
soma da expressão sobre todas as linhas de entrada</li>
                                                <li>Contagem: calcula o
número de linhas de entrada</li>
                                                <li>Média aritmética:
calcula a média aritmética sobre o conjunto de linhas de entrada
fornecido</li>
                                                <li>Máximo: retorna o
maior valor entre todos os fornecidos</li>
                                                <li>Mínimo: retorna o
menor valor entre todos os fornecidos</li>
                                            </small>
                                    </div>


                </div>



                <h5><b> Atributos da variável </b></h5>
                <div class="elemento-cadastro row">
                        <input class="col-md-1" style="width:2%;margin-
top:-0.5em;margin-left:0.8em;padding-left:2em;" type="checkbox" data-ng-
model="itemAtual.acumulativa" id="acumulativa"></input>
```

```html
                                    <div class="col-md-11 descricao-cadastro"
style="width:95%;"><small>Selecione a opção caso a variável seja acumulativa
ao longo do tempo. <br> Exemplo: (valor do numerador na data atual + valor
do numerador nas datas anteriores) / (valor do denominador na data atual +
valor do denominador nas datas anteriores)</small></div>
                            </div>

                        <div class="elemento-cadastro row">
                            <input class="col-md-1" style="width:2%;margin-
top:-0.5em;margin-left:0.8em;padding-left:2em;" type="checkbox" data-ng-
model="itemAtual.distribuicao" id="distribuicao"></input>
                            <div class="col-md-11 descricao-cadastro"
style="width:95%"><small>Selecione a opção caso a variável seja um
denominador que corresponde ao valor total no Município <br> Exemplo: valor
do numerador / valor do denominador para o Município</small></div>
                            </div>


                        <div class="elemento-cadastro row">
                            <input class="col-md-1" style="width:2%;margin-
top:-0.5em;margin-left:0.8em;padding-left:2em;" type="checkbox" data-ng-
model="itemAtual.crescimento" id="crescimento"></input>
                            <div class="col-md-11 descricao-cadastro"
style="width:95%"><small>Selecione a opção caso a variável seja um
denominador de um indicador de variação temporal. <br> Exemplo: (valor na
data atual – valor na data anterior) / valor na data anterior</small></div>
                            </div>

                        <div class="elemento-cadastro row">
                            <input class="col-md-1" style="width:2%;margin-
top:-0.5em;margin-left:0.8em;padding-left:2em;" ng-
model="check_tipo_cruzamento" type="checkbox" ng-click="ativarCruzamento()"
id="tipo_cruzamento"></input>
                            <div class="col-md-11 descricao-cadastro"
style="width:95%"><small>Selecione a opção caso a variável pertença a um
indicador que faz o cruzamento entre <u> dois (ou mais) bancos de dados </u>
e possua <u> categorias </u> de composição de variável distintas nos dois
(ou mais) bancos de dados</small></div>
                            </div>

                        <div class="container elemento-cadastro"
style="background-color:#E5E5E5;border-color:#DDDDDD;border-
width:1px;border-style:solid;">
                            <label> Filtros da variável </label>
                            <div><small> Selecione os filtros necessários para
composição da variável. Caso deixe o campo em branco a informação não será
```

considerada para a composição da variável </small></div>
                       <div data-ng-repeat="filtro in variavelFiltro | orderBy
: 'ordem'">
                              <div class="row">
                                     <div class="col-sm-5"> <label ng-attr-
for="{{'coluna_valor-'+$index}}"><small>Selecione a coluna do banco de dados
que contém o valor a ser filtrado </small> </label> </div>
                                     <div class="col-sm-2"> <label ng-attr-
for="{{'operador_comparador-'+$index}}"><small>Operação de comparação
</small></label></div>
                                     <div class="col-sm-3" ng-
if="filtro.operador_comparador!='is' && filtro.operador_comparador!='is
not'"> <label ng-attr-for="{{'valor-'+$index}}"><small>Valor
</small></label></div>
                                     <div class="col-sm-1"> <label ng-attr-
for="{{'operador_logico-'+$index}}"><small>e/ou </small></label></div>
                              </div>
                              <div class="row">
                              <div class="col-sm-5">
                              <select class="controle-cadastro" style="max-
width:100%;" data-ng-options="coluna as coluna for coluna in
fonteDados.colunas" data-ng-model="filtro.coluna" ng-attr-
id="{{'coluna_valor-'+$index}}">
                                     <option value=""></option>
                              </select>
                              </div>
                              <div class="col-sm-2">
                              <select class="controle-cadastro" data-ng-
model="filtro.operador_comparador" ng-attr-id="{{'operador_comparador-
'+$index}}">
                                     <option value=""></option>
                                     <option value="=">igual a</option>
                                     <option value="!=">diferente de</option>
                                     <option value=">">maior que</option>
                                     <option value=">=">maior ou igual
a</option>
                                     <option value="<">menor que</option>
                                     <option value="<=">menor ou igual
a</option>
                                     <option value="like">contém</option>
                                     <option value="not like">não
contém</option>
                                     <option value="is">valores
"vazios"</option>
                                     <option value="is not">valores "não
vazios"</option>

```html
                              </select>
                           </div>
                           <div class="col-sm-3">
                                    <input class="controle-cadastro" ng-
if="filtro.operador_comparador!='is' && filtro.operador_comparador!='is
not'" type="text" style="max-width:100%;width:100%;" data-ng-
model="filtro.valor" ng-attr-id="{{'valor-'+$index}}" ></input>
                           </div>
                           <div class="col-sm-1">
                           <select class="controle-cadastro" data-ng-
model="filtro.operador_logico" ng-attr-id="{{'operador_logico-'+$index}}">
                                    <option value=""></option>
                                    <option value="AND">e</option>
                                    <option value="OR">ou</option>


                           </select>
                           </div>
                           <div class="col-sm-1 pull-right">
                                    <button ng-
click="deletarElemento($index)">-</button>
                           </div>
                           </div>

                 </div>

                           <button type="button" style="margin-top:1em;margin-
bottom:1em" data-ng-click="adicionarElemento()">Adicionar Filtro</button>
                           </div>
                           <br>
                           <input type="button" data-ng-show="estado!='inserir'"
value="Atualizar" data-ng-click="confirmarModal('Atualizar')">
                           <input type="button" data-ng-show="estado!='inserir'"
value="Remover" data-ng-click="confirmarModal('Remover')">

                           </span>

                           <input data-ng-show="estado!='inserir'" type="button"
value="Nova variável" data-ng-click="limparForm()">

                           <input data-ng-show="estado=='inserir'" type="button"
value="Gravar" data-ng-click="confirmarModal('Inserir')">
                           <input data-ng-show="estado=='inserir'" type="button"
value="Voltar" data-ng-click="voltar()">

        </form>
```

```php
<?php }else{ ?>
                              <h4> Você não possui autorização para visualizar esse
conteúdo.</h4>
<?php } ?>


          </div>
```

Cadastro_instrumento.php

```php
<?
ph
p

    /**
     * Template Name: Cadastro Instrumento
     */
    ?>


    <script type="text/javascript">
    jQuery.noConflict();
    var app = angular.module('monitoramentoPde',
    ['ngResource','ngAnimate','ui.bootstrap','angular.filter']);
    app.factory('GrupoIndicador',function($resource){
            return $resource('/wp-
    json/monitoramento_pde/v1/grupo_indicador/:id',{id:'@id_grupo_indicador'},{
                    update:{
                            method:'PUT'
                    }
            });
    });
    app.controller("cadastroGrupo", function($scope, $rootScope, $http, $filter,
    $uibModal, GrupoIndicador) {

            $scope.estado = "listar";

            $scope.carregarTipo = function(){
                    if($scope.tipo=='estrategia')
                            $scope.tipoExibicao = 'Estratégia';

                    if($scope.tipo=='instrumento')
                            $scope.tipoExibicao = 'Instrumento';
```

```
GrupoIndicador.query({tipo:$scope.tipo,tipo_retorno:'array'},function(
grupos) {
                $rootScope.listaGrupos = grupos;
              $rootScope.grupos = grupos;
        });
        $scope.estado = 'listar';
    };

    $scope.carregar = function(){
        $scope.itemAtual = $rootScope.grupos.filter((grupo) =>
grupo.id_grupo_indicador == $scope.idItemAtual)[0];
        if($scope.itemAtual != null){
                $scope.estado = "selecionar";
        }
    };

    $scope.adicionarElemento = function(){
        $scope.itemAtual.propriedades.push({});
    };

    $scope.confirmarModal = function(acao){
        $rootScope.modalConfirmacao = $uibModal.open({
                        animation: true,
                        ariaLabelledBy: 'modal-titulo-grupo',
                        ariaDescribedBy: 'modal-corpo-grupo',
                        templateUrl: 'ModalConfirmacao.html',
                        controller: 'cadastroGrupo',
                        scope:$scope,
                        size: 'md',
        });
        $scope.acao = acao;
    };

    $scope.limparForm = function(){
        $scope.itemAtual = {};
        $scope.itemAtual.propriedades =[];
        $scope.estado = "inserir";
    };

    $scope.atualizar = function(){

    GrupoIndicador.update({grupo:$scope.itemAtual,id_grupo_indicador:$scop
e.itemAtual.id_grupo_indicador,tipo:$scope.tipo}).$promise.then(
                function(mensagem){
                        alert('O' + $scope.tipo + ' foi atualizado com
sucesso.');
```

```javascript
        GrupoIndicador.query({tipo:$scope.tipo,tipo_retorno:'array'},function(
grupos) {
                                $rootScope.grupos = grupos;
                        });
                },
                function(erro){
                        alert('Ocorreu um erro ao atualizar ' +
$scope.tipo + '. Mensagem de erro:\n\n' + erro.data);
                }
            );
        };


        $scope.remover = function(){

        GrupoIndicador.remove({id:$scope.itemAtual.id_grupo_indicador}).$promi
se.then(
                function(mensagem){
                        alert('O' + $scope.tipo + ' foi removido com
sucesso.');

        GrupoIndicador.query({tipo:$scope.tipo,tipo_retorno:'array'},function(
grupos) {
                                $rootScope.grupos = grupos;
                        });
                },
                function(erro){
                        alert('Ocorreu um erro ao remover ' +
$scope.tipo + '. Mensagem de erro:\n\n' + erro.data);
                }
            );
            $rootScope.idItemAtual = null;
            $scope.$parent.estado = "listar";
        };
        $scope.inserir = function(){

        GrupoIndidcador.save({grupo:$scope.itemAtual,tipo:$scope.tipo}).$promi
se.then(
                function(mensagem){
                        alert('O ' + $scope.tipo + ' foi inserido com
sucesso.');
                        Variavel.query(function(variaveis) {
                                $rootScope.variaveis = variaveis;
                        });
                },
                function(erro){
```

```javascript
                        alert('Ocorreu um erro ao remover o ' +
$scope.tipo + '. Mensagem de erro:\n\n' + erro.data);
                    }
            );
            $scope.$parent.estado = "listar";
            $scope.carregar();
        };
        $scope.voltar = function(){
            $scope.estado = "listar";
            $scope.carregar();
        };
        $scope.fecharModal = function(){
            $rootScope.modalConfirmacao.close();
        };

        $scope.submeter = function(){
            if($scope.acao == 'Atualizar')
                    $scope.atualizar();
            else
                    if($scope.acao == 'Remover')
                            $scope.remover();
                    else
                            if($scope.acao == 'Inserir')
                                    $scope.inserir();

            $rootScope.modalConfirmacao.close();
        };

        $scope.deletarElemento = function(indice){
            $scope.itemAtual.propriedades.splice(indice,1);
        };

        function Workbook() {
            if(!(this instanceof Workbook)) return new Workbook();
            this.SheetNames = [];
            this.Sheets = {};
        }

        function criarCelula(c, r, val){
            var cell = {v: val };

            if(cell.v == null) cell.v = '';

            if(typeof cell.v === 'number') cell.t = 'n';
            else if(typeof cell.v === 'boolean') cell.t = 'b';
            else if(cell.v instanceof Date) {
```

```javascript
                cell.t = 'n'; cell.z = XLSX.SSF._table[14];
                cell.v = datenum(cell.v);
        }
        else cell.t = 's';

        return cell;
    }

    function s2ab(s) {
        var buf = new ArrayBuffer(s.length);
        var view = new Uint8Array(buf);
        for (var i=0; i!=s.length; ++i) view[i] = s.charCodeAt(i) &
0xFF;
        return buf;
    }

    $scope.exportarGrupos = function(){

            var wb = new Workbook();

            var wsInstrumentos = {};
            var wsEstrategias = {};

            var instrumentosExp = null;
            var estrategiasExp = null;

            var linha = 0;

            linhaInstrumento = 0;
            linhaEstrategia = 0;

            //carregando dados para exportação, puxa da api se
necessário
            wsInstrumentos[XLSX.utils.encode_cell({c:0 ,r:0})] =
criarCelula(0 ,0,'ID');
            if($scope.tipo == 'estrategia'){
                estrategiasExp = $rootScope.grupos;

    GrupoIndicador.query({tipo:'instrumento',tipo_retorno:'array'},functio
n(grupos) {
                    instrumentosExp = grupos;
                    exportarInstrumentoEstrategia();
                });

            }else{
                if($scope.tipo == 'instrumento'){
```

```javascript
                                instrumentosExp = $rootScope.grupos;

        GrupoIndicador.query({tipo:'estrategia',tipo_retorno:'array'},function
(grupos) {
                                        estrategiasExp = grupos;
                                        exportarInstrumentoEstrategia();
                                });


                        }else{

        GrupoIndicador.query({tipo:'instrumento',tipo_retorno:'array'},functio
n(grupos) {
                                        instrumentosExp = grupos;

        GrupoIndicador.query({tipo:'estrategia',tipo_retorno:'array'},function
(grupos) {
                                                estrategiasExp = grupos;

        exportarInstrumentoEstrategia();
                                        });
                                });
                        }
                }

                        exportarInstrumentoEstrategia = function(){
                                wsInstrumentos[XLSX.utils.encode_cell({c:0
,r:0})] = criarCelula(0 ,0,'ID');
                                wsInstrumentos[XLSX.utils.encode_cell({c:1
,r:0})] = criarCelula(1 ,0,'Nome');

                                wsEstrategias[XLSX.utils.encode_cell({c:0
,r:0})] = criarCelula(0 ,0,'ID');
                                wsEstrategias[XLSX.utils.encode_cell({c:1
,r:0})] = criarCelula(1 ,0,'Nome');

                                var indiceInstrumento = 0;


        while(!instrumentosExp[indiceInstrumento].propriedades[0].chave &&
indiceInstrumento < instrumentosExp.length)
                                indiceInstrumento++;


        console.log(instrumentosExp[indiceInstrumento].propriedades);
```

```javascript
                        coluna = 2;


        angular.forEach(instrumentosExp[indiceInstrumento].propriedades,functi
on(propriedade,chave){

        wsInstrumentos[XLSX.utils.encode_cell({c:coluna ,r:0})] =
criarCelula(coluna ,0, propriedade.chave);
                                coluna++;
                        });

                        var indiceEstrategia = 0;


        while(!estrategiasExp[indiceEstrategia].propriedades &&
indiceEstrategia < estrategiasExp.length)
                                indiceEstrategia++;

                        coluna = 2;

        angular.forEach(estrategiasExp[0].propriedades,function(propriedade,ch
ave){

        wsEstrategias[XLSX.utils.encode_cell({c:coluna ,r:0})] =
criarCelula(coluna ,0, propriedade.chave);
                                coluna++;
                        });

                        linha = 1;


        angular.forEach(instrumentosExp,function(instrumento,chave){


        wsInstrumentos[XLSX.utils.encode_cell({c:0 ,r:linha})] = criarCelula(0
,linha,instrumento.id_grupo_indicador);

        wsInstrumentos[XLSX.utils.encode_cell({c:1 ,r:linha})] = criarCelula(1
,linha,instrumento.nome);

                                coluna = 2;

        angular.forEach(instrumento.propriedades,function(propriedade,chave){


        wsInstrumentos[XLSX.utils.encode_cell({c:coluna,r:linha})] =
```

```
                    criarCelula(coluna,linha,propriedade.valor);
                                                coluna++;

                            });

                            linha++;

                    });

                    var range = {s: {c:0, r:0}, e: {c:coluna, r:
linha}};
                    wsInstrumentos['!ref'] =
XLSX.utils.encode_range(range);

                    linha = 1;


       angular.forEach(estrategiasExp,function(estrategia,chave){

                                    wsEstrategias[XLSX.utils.encode_cell({c:0
,r:linha})] = criarCelula(0 ,linha,estrategia.id_grupo_indicador);
                                    wsEstrategias[XLSX.utils.encode_cell({c:1
,r:linha})] = criarCelula(1 ,linha,estrategia.nome);

                                    coluna = 2;

       angular.forEach(estrategia.propriedades,function(propriedade,chave){


       wsEstrategias[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,propriedade.valor);
                                    coluna++;

                            });

                            linha++;

                    });

                    var range = {s: {c:0, r:0}, e: {c:coluna, r:
linha}};
                    wsEstrategias['!ref'] =
XLSX.utils.encode_range(range);

                    /* add worksheet to workbook */
                    wb.SheetNames.push('Instrumentos');
```

```javascript
                        wb.SheetNames.push('Estrategias');
                        wb.Sheets['Instrumentos'] = wsInstrumentos;
                        wb.Sheets['Estrategias'] = wsEstrategias;

                        var wbout = XLSX.write(wb, {bookType:'xlsx',
bookSST:false, type: 'binary'});

                        saveAs(new
Blob([s2ab(wbout)],{type:"application/octet-stream"}),
"estrategias_e_instrumentos.xlsx");
                }
        }


});
</script>
```

```php
<?php get_template_part('templates/page', 'header'); ?>
```

```html
<div class="content-page container text-justify" data-ng-
app="monitoramentoPde" data-ng-controller="cadastroGrupo">


<script type="text/ng-template" id="ModalConfirmacao.html">


<div class="modal-instrumento">
        <div class="modal-header">
    <h3 class="modal-title" id="modal-titulo-instrumento"> {{acao}}
{{tipoExibicao}} <button class="btn btn-danger pull-right" type="button" ng-
click="fecharModal()">X</button></h3>
        </div>
        <div class="modal-body" id="modal-corpo-instrumento">
                    Você irá {{acao.toLowerCase()}} a {{tipoExibicao}}
{{itemAtual.nome}}. <br><br> Confirme sua ação.
                    </div>
        <div class="modal-footer">
            <button class="btn btn-danger" type="button" ng-
click="fecharModal()">     Abortar</button>
            <button class="btn btn-success" type="button" ng-
click="submeter()">  Confirmar</button>
        </div>
```

```
</div>
</script>




<?php the_content(); ?>
<?php
                    $autorizado = false;
                    if(is_user_logged_in()){
                            $usuario = wp_get_current_user();
                            foreach($usuario->roles as $role) {
                                    if(strtolower($role) == 'administrator')
                                            $autorizado = true;
                            }
                    }else
                            $autorizado = false;

                    if($autorizado){
 ?>
<form>
                    <button class="btn-primary" type="button" ng-
click="exportarGrupos()"> Exportar relação de estratégias e instrumentos
</button>
                    <div class="elemento-cadastro" >


                            <label for="tipo"> Tipo de grupo de indicador
</label>

                            <div class="descricao-cadastro"><small>Selecione
o tipo de grupo de indicador</small></div>

                            <select class="controle-cadastro" ng-
model="tipo" ng-change="carregarTipo()" id="tipo">
                            <option
value="instrumento">Instrumentos</option>
                            <option value="estrategia">Estratégias</option>
                            </select>
                    </div>


                    <span data-ng-show="estado!='inserir' && tipo!=null">
                            <div class="elemento-cadastro"  >
```

```html
                                    <label for="grupo" > {{tipoExibicao}} </label>

                                         <div class="descricao-
cadastro"><small>Selecione o {{tipoExibicao}}</small></div>

                                         <select class="controle-cadastro"
style="max-width:100%;" data-ng-model="idItemAtual" data-ng-
options="grupo.id_grupo_indicador as grupo.nome for grupo in grupos |
orderBy: 'nome'" data-ng-change="carregar()" id="grupo">
                                         <option value=""></option>
                                         </select>
                                 </div>


                         </span>

                         <span data-ng-show="estado!='listar' && tipo!=null">

                         <div class="elemento-cadastro">
                                 <label for="nome"> Nome do {{tipoExibicao}}
</label>
                                 <div class="descricao-cadastro"><small> Defina o
nome que o {{tipoExibicao}} terá </small></div>
                                 <input class="controle-cadastro" type="text"
style="max-width:100%;width:100%;" data-ng-model="itemAtual.nome"
id="nome"></input>
                         </div>

                         <div class="container elemento-cadastro"
style="background-color:#E5E5E5;border-color:#DDDDDD;border-width:1px;border-
style:solid;">
                                 <label> Propriedades {{tipo=='estrategia'? 'da':'do'}}
{{tipoExibicao}} </label>
                                 <div><small> Edite as propriedades
{{tipo=='estrategia'? 'da':'do'}} {{tipoExibicao}} </small></div>
                                 <div data-ng-repeat="propriedade in
itemAtual.propriedades">

                                         <div class="row">
                                                 <div class="col-sm-3"> <label ng-
attr-for="{{'chave-'+$index}}"><small>Item </small> </label> </div>
                                                 <div class="col-sm-7"> <label ng-
attr-for="{{'valor-'+$index}}"><small> </small></label></div>
                                                 <div class="col-sm-1"> <label ng-
attr-for="{{'ordem-'+$index}}"><small>Ordem</small></label></div>
                                         </div>
```

```html
<div class="row">
    <div class="col-sm-3">
        <input class="controle-cadastro" type="text" style="max-width:100%;width:100%;" data-ng-model="propriedade.chave" ng-attr-id="{{'chave-'+$index}}" ></input>
    </div>
    <div class="col-sm-7">
        <textarea rows="4" type="text" style="max-width:100%;width:100%;" data-ng-model="propriedade.valor" ng-attr-id="{{'valor-'+$index}}" ></textarea>
    </div>
    <div class="col-sm-1">
        <input class="controle-cadastro" type="text" style="max-width:100%;width:100%;" data-ng-model="propriedade.ordem" ng-attr-id="{{'ordem-'+$index}}" ></input>
    </div>
    <div class="col-sm-1 pull-right">
        <button ng-click="deletarElemento($index)">-</button>
    </div>
</div>

</div>

<button type="button" style="margin-top:1em;margin-bottom:1em" data-ng-click="adicionarElemento()">Adicionar item</button>
</div>
<br>
<input type="button" data-ng-show="estado!='inserir'" value="Atualizar" data-ng-click="confirmarModal('Atualizar')">
<input type="button" data-ng-show="estado!='inserir'" value="Remover" data-ng-click="confirmarModal('Remover')">

</span>

<input data-ng-show="estado!='inserir' && tipo!=null" type="button" value="Novo" data-ng-click="limparForm()">

<input data-ng-show="estado=='inserir'" type="button" value="Gravar" data-ng-click="confirmarModal('Inserir')">
<input data-ng-show="estado=='inserir'" type="button" value="Voltar" data-ng-click="voltar()">

</form>
```

```php
<?php }else{ ?>
                        <h4> Você não possui autorização para visualizar esse

conteúdo.</h4>
<?php } ?>



    </div>
```

Cadastro_indicador_composto.php

```php
<?php
    /**
     * Template Name: Cadastro Indicador Composto
     */
?>


<script type="text/javascript">
jQuery.noConflict();
var app = angular.module('monitoramentoPde',
['ngResource','ngAnimate','ui.bootstrap','angular.filter']);
app.factory('Indicador',function($resource){
        return $resource('/wp-
json/monitoramento_pde/v1/indicador/:id',{id:'@id_indicador'});
});
app.factory('IndicadorFusao',function($resource){
        return $resource('/wp-
json/monitoramento_pde/v1/indicador/fusao/:id',{id:'@id_indicador'},{
                update:{
                        method:'PUT'
                }
        });
});
app.controller("cadastroIndicadorComposicao", function($scope, $rootScope,
$http, $filter, $uibModal, Indicador, IndicadorFusao) {

        Indicador.query(function(indicadores){
                $scope.indicadores = indicadores;
        });

        IndicadorFusao.query(function(indicadoresCompostos) {
                        $rootScope.listaIndicadoresCompostos =
indicadoresCompostos;
                $rootScope.indicadoresCompostos = indicadoresCompostos;
```

```
        });

        $scope.estado = "listar";

        $scope.carregar = function(){
                $scope.itemAtual =
$rootScope.indicadoresCompostos.filter((indicador) =>
indicador.id_indicador_pai == $scope.idItemAtual)[0];
                $scope.estado = 'selecionar';
        };

        $scope.carregarIndicadorNovo = function(){
                $rootScope.idNovoIndicador = $scope.idNovoIndicador;
        }

        $scope.adicionarElemento = function(){
                $scope.itemAtual.composicao.push({});
        };

        $scope.confirmarModal = function(acao){
                $scope.indicadorPai = $scope.indicadores.filter((indicador) =>
indicador.id_indicador == $rootScope.idNovoIndicador)[0];
                $rootScope.modalConfirmacao = $uibModal.open({
                                animation: true,
                                ariaLabelledBy: 'modal-titulo-indicador',
                                ariaDescribedBy: 'modal-corpo-indicador',
                                templateUrl: 'ModalConfirmacao.html',
                                controller: 'cadastroIndicadorComposicao',
                                scope:$scope,
                                size: 'md',
                });
                $scope.acao = acao;
        };

        $scope.limparForm = function(){
                $scope.itemAtual = {};
                $scope.itemAtual.composicao = [];
                $scope.idItemAtual = null;
                $scope.estado = "inserir";
        };

        $scope.atualizar = function(){
                $rootScope.itemAtual = $scope.itemAtual;

        IndicadorFusao.update({composicao:$scope.itemAtual.composicao,id_indicad
or:$scope.itemAtual.id_indicador_pai}).$promise.then(
```

```
                        function(mensagem){
                                alert('O indicador composto foi atualizado com
sucesso.');
                        },
                        function(erro){
                                alert('Ocorreu um erro ao atualizar o indicador
composto. Mensagem de erro:\n\n' + erro.data);
                        }
                );
        };


        $scope.remover = function(){

        IndicadorFusao.remove({id:$scope.itemAtual.id_indicador_pai}).$promise.t
hen(
                        function(mensagem){
                                alert('O indicador composto foi removido com
sucesso.');

                                IndicadorFusao.query(function(indicadoresCompostos)
{

                                        $rootScope.indicadoresCompostos =
indicadoresCompostos;
                                });
                        },
                        function(erro){
                                alert('Ocorreu um erro ao remover o indicador
composto. Mensagem de erro:\n\n' + erro.data);
                        }
                );
                $scope.$parent.idItemAtual = null;
                $scope.$parent.estado = "listar";
        };
        $scope.inserir = function(){
                console.log($rootScope.idNovoIndicador);
                console.log($scope.idNovoIndicador);

        IndicadorFusao.save({composicao:$scope.itemAtual.composicao,id_indicador
:$rootScope.idNovoIndicador}).$promise.then(
                                function(mensagem){
                                        alert('O indicador composto foi inserido com
sucesso.');
                                },
                                function(erro){
                                        alert('Ocorreu um erro ao salvar o indicador
composto. Mensagem de erro:\n\n' + erro.data);
                                }
```

```
                );
                IndicadorFusao.query(function(indicadoresCompostos) {
                        $rootScope.indicadoresCompostos = indicadoresCompostos;
                });

                $scope.$parent.estado = "listar";
                $scope.carregar();
        };
        $scope.voltar = function(){
                $scope.estado = "listar";
        };
        $scope.fecharModal = function(){
                $rootScope.modalConfirmacao.close();
        };

        $scope.submeter = function(){

                if($scope.acao == 'Atualizar')
                        $scope.atualizar();
                else
                        if($scope.acao == 'Remover')
                                $scope.remover();
                        else
                                if($scope.acao == 'Inserir')
                                        $scope.inserir();

                $rootScope.modalConfirmacao.close();
        };

        $scope.deletarElemento = function(indice){
                $scope.itemAtual.composicao.splice(indice,1);
        };


});
</script>




<?php get_template_part('templates/page', 'header'); ?>


<div class="content-page container text-justify" data-ng-app="monitoramentoPde"
data-ng-controller="cadastroIndicadorComposicao">
```

```html
<script type="text/ng-template" id="ModalConfirmacao.html">


<div class="modal-instrumento">
        <div class="modal-header">
    <h3 class="modal-title" id="modal-titulo-variavel"> {{acao}} indicador
composto <button class="btn btn-danger pull-right" type="button" ng-
click="fecharModal()">X</button></h3>
        </div>
        <div class="modal-body" id="modal-corpo-variavel">
                     Você irá {{acao.toLowerCase()}} o indicador composto
{{indicadorPai.nome}}. <br><br> Confirme sua ação.
                     </div>
        <div class="modal-footer">
                <button class="btn btn-danger" type="button" ng-
click="fecharModal()">      Abortar</button>
                <button class="btn btn-success" type="button" ng-
click="submeter()">   Confirmar</button>
        </div>
</div>
</script>




<?php the_content(); ?>
<?php
                     $autorizado = false;
                     if(is_user_logged_in()){
                             $usuario = wp_get_current_user();
                             foreach($usuario->roles as $role) {
                                     if(strtolower($role) == 'administrator')
                                             $autorizado = true;
                             }
                     }else
                             $autorizado = false;

                     if($autorizado){
 ?>
<form>

            <span data-ng-show="estado!='inserir'">
                     <div class="elemento-cadastro" >
```

```html
                                <label for="indicador_composto"> Indicador pai
</label>

                                <div class="descricao-cadastro"><small>Selecione o
indicador pai</small></div>

                                <select class="controle-cadastro" style="max-
width:100%;" data-ng-model="idItemAtual" data-ng-
options="indicador_pai.id_indicador_pai as indicador_pai.nome_indicador_pai for
indicador_pai in indicadoresCompostos | orderBy: 'nome_indicador_pai'" data-ng-
change="carregar()" id="indicador_composto">
                                    <option value=""></option>
                                    </select>
                        </div>
                        </span>

                        <span data-ng-show="estado=='inserir'">
                                <div class="elemento-cadastro" >


                                <label for="indicador_pai"> Indicador pai </label>

                                <div class="descricao-cadastro"><small>Selecione o
indicador pai</small></div>

                                <select class="controle-cadastro" style="max-
width:100%;" data-ng-model="idNovoIndicador" data-ng-
options="indicador.id_indicador as indicador.nome for indicador in indicadores
| orderBy: 'nome'"  data-ng-change="carregarIndicadorNovo()">
                                    <option value=""></option>
                                    </select>
                        </div>
                        </span>

                        <span data-ng-show="estado!='listar'">


                        <div class="container elemento-cadastro"
style="background-color:#E5E5E5;border-color:#DDDDDD;border-width:1px;border-
style:solid;">
                            <label> Indicadores Filho </label>
                            <div><small> Selecione os indicadores e as categorias que
irão compor o indicador pai.  </small></div>
                            <div data-ng-repeat="filho in itemAtual.composicao |
orderBy : 'ordem'">
                                <div class="row">
```

```html
                                              <div class="col-sm-7"> <label ng-attr-
for="{{'indicador_filho-'+$index}}"><small>Selecione o indicador filho </small>
</label> </div>
                                              <div class="col-sm-4"> <label ng-attr-
for="{{'categoria-'+$index}}"><small>Insira a categoria </small></label></div>

                        </div>
                        <div class="row">
                        <div class="col-sm-7">
                        <select class="controle-cadastro" style="max-
width:100%;" data-ng-options="indicador.id_indicador as indicador.nome for
indicador in indicadores | orderBy: 'nome'" data-ng-
model="filho.id_indicador_filho" ng-attr-id="{{'indicador_filho-'+$index}}">

                        </select>
                        </div>


                        <div class="col-sm-4">
                                <input class="controle-cadastro" type="text"
style="max-width:100%;width:100%;" data-ng-model="filho.dimensao" ng-attr-
id="{{'categoria-'+$index}}" ></input>
                        </div>


                        <div class="col-sm-1 pull-right">
                                <button ng-click="deletarElemento($index)">-
</button>
                        </div>
                        </div>

                </div>

                        <button type="button" style="margin-top:1em;margin-
bottom:1em" data-ng-click="adicionarElemento()">Adicionar Filtro</button>
                        </div>
                        <br>
                        <input type="button" data-ng-show="estado!='inserir'"
value="Atualizar" data-ng-click="confirmarModal('Atualizar')">
                        <input type="button" data-ng-show="estado!='inserir'"
value="Remover" data-ng-click="confirmarModal('Remover')">


                        </span>

                        <input data-ng-show="estado!='inserir'" type="button"
value="Novo Indicador composto" data-ng-click="limparForm()">
```

```html
                        <input data-ng-show="estado=='inserir'" type="button"
value="Gravar" data-ng-click="confirmarModal('Inserir')">
                        <input data-ng-show="estado=='inserir'" type="button"
value="Voltar" data-ng-click="voltar()">

    </form>


<?php }else{ ?>
                    <h4> Você não possui autorização para visualizar esse
conteúdo.</h4>
<?php } ?>


    </div>
```

Cadastro_indicador.php

```php
<?
ph
p
    /**
     * Template Name: Cadastro Indicadores
     */
?>




<script type="text/javascript">
jQuery.noConflict();
var app = angular.module('monitoramentoPde',
['ngResource','ngAnimate','ui.bootstrap','angular.filter']);
app.factory('Indicador',function($resource){
        return $resource('/wp-
json/monitoramento_pde/v1/indicador/:id',{id:'@id_indicador'},{
                update:{
                        method:'PUT'
                }
        });
});
app.factory('IndicadorValores',function($resource){
        return $resource('/wp-
```

```
json/monitoramento_pde/v1/indicador/valores/:id',{id:'@id_indicador'},{
                update:{
                        method:'PUT'
                }
        });
});
app.factory('Variavel',function($resource){
        return $resource('/wp-json/monitoramento_pde/v1/variavel/:id');
});
app.factory('IndicadorComposicao',function($resource){
        return $resource('/wp-
json/monitoramento_pde/v1/indicador_composicao/:id',{id:'@id_indicador'},{
                        update:{
                                method:'PUT'
                        }
        });
});
app.factory('Instrumentos',function($resource){
        return $resource('/wp-json/monitoramento_pde/v1/instrumentos');
});
app.factory('Estrategias',function($resource){
        return $resource('/wp-json/monitoramento_pde/v1/grupo_indicador');
});
app.factory('Territorios',function($resource){
        return $resource('/wp-json/monitoramento_pde/v1/territorios');
});
app.controller("cadastroIndicador", function($scope, $rootScope, $http,
$filter, $uibModal, Indicador, Instrumentos, Territorios, IndicadorComposicao,
Variavel, IndicadorValores, Estrategias) {

        Indicador.query(function(indicadores) {
                $rootScope.listaIndicadores = indicadores;
                $rootScope.indicadores = indicadores;
        });

         Variavel.query(function(variaveis) {
                 $scope.variaveis = variaveis;
        });

        Estrategias.query({tipo:'estrategia',tipo_retorno:'object'},function(est
rategias) {
                $scope.estrategias = estrategias;
        });

        $scope.mensagemCalculo = "O indicador será calculado e armazenado na
base de dados";
```

```javascript
        Instrumentos.query(function(instrumentos){
                $scope.instrumentos = instrumentos;
        });

        Territorios.query(function(territorios){
                $scope.territorios = territorios;
        });

        $scope.estado = "listar";

        $scope.filtrarInstrumento = function(){
                if($scope.idInstrumentoAtivo != null)
                        $rootScope.indicadores =
$rootScope.listaIndicadores.filter((indicador) => indicador.id_instrumento ==
$scope.idInstrumentoAtivo);
                else
                        $rootScope.indicadores = $rootScope.listaIndicadores;
        }

        $scope.carregarIndicador = function(){
                $scope.indicadorAtivo = $rootScope.indicadores.filter((indicador)
=> indicador.id_indicador == $scope.idIndicadorAtivo)[0];
                if($scope.indicadorAtivo != null){

        IndicadorComposicao.query({id:$scope.indicadorAtivo.id_indicador},functi
on(indicadorComposicao){
                                $scope.indicadorComposicao = indicadorComposicao;
                                $scope.estado = "selecionar";
                        });
                }else
                        $scope.indicadorComposicao = null;
        };

        $scope.adicionarElemento = function(){
                $scope.indicadorComposicao.push({});

        };

        $scope.confirmarModal = function(acao){
                $rootScope.modalConfirmacao = $uibModal.open({
                        animation: true,
                        ariaLabelledBy: 'modal-titulo-indicador',
                        ariaDescribedBy: 'modal-corpo-indicador',
                        templateUrl: 'ModalConfirmacao.html',
                        controller: 'cadastroIndicador',
```

```javascript
                            scope:$scope,
                            size: 'md',
                });
                $scope.acao = acao;
        };

        $scope.limparForm = function(){
                $scope.indicadorAtivo = null;
                $scope.indicadorComposicao = [];
                $scope.estado = "inserir";
        };

        $scope.atualizar = function(){

        IndicadorComposicao.update({composicao:$scope.indicadorComposicao,id_ind
icador:$scope.indicadorAtivo.id_indicador}).$promise.then(
                        function(mensagem){},
                        function(erro){
                                alert('Ocorreu um erro ao atualizar a composição do
indicador. Mensagem de erro:\n\n' + erro.data);
                        }
                );

        Indicador.update({indicador:$scope.indicadorAtivo}).$promise.then(
                        function(mensagem){
                                alert('O indicador foi atualizado com sucesso.');
                                Indicador.query(function(indicadores) {
                                        $rootScope.indicadores = indicadores;
                                        $scope.filtrarInstrumento();
                                });
                        },
                        function(erro){
                                alert('Ocorreu um erro ao atualizar o indicador.
Mensagem de erro:\n\n' + erro.data);
                        }
                );

        };

        /*$scope.calcular = function(){

        IndicadorValores.update({id_indicador:$scope.indicadorAtivo.id_indicador
}).$promise.then(
                        function(mensagem){
                                alert('O indicador foi calculado com sucesso.');
                                IndicadorValores.update(function(indicadores) {
```

```
                                    $rootScope.indicadores = indicadores;
                            });
                    },
                    function(erro){
                            alert('Ocorreu um erro ao atualizar o indicador.
Mensagem de erro:\n\n' + erro.data);
                    }
            );

        };*/


        $scope.remover = function(){

        IndicadorComposicao.remove({id:$scope.indicadorAtivo.id_indicador}).$pro
mise.then(
                    function(mensagem){

                    },
                    function(erro){
                            alert('Ocorreu um erro ao remover a composição do
indicador. Mensagem de erro:\n\n' + erro.data);
                    }
            );


        Indicador.remove({id:$scope.indicadorAtivo.id_indicador}).$promise.then(
                    function(mensagem){
                            alert('O indicador foi removido com sucesso.');
                            Indicador.query(function(indicadores) {
                                    $rootScope.indicadores = indicadores;
                                    $scope.filtrarInstrumento();
                            });
                    },
                    function(erro){
                            alert('Ocorreu um erro ao remover o indicador.
Mensagem de erro:\n\n' + erro.data);
                    }
            );
            $scope.$parent.idIndicadorAtivo = null;
            $scope.$parent.estado = "listar";
        };
        $scope.inserir = function(){
            $rootScope.indicadorComposicao = $scope.indicadorComposicao;
            Indicador.save({indicador:$scope.indicadorAtivo}).$promise.then(
                    function(mensagem){
```

```
        IndicadorComposicao.save({composicao:$rootScope.indicadorComposicao,id_i
ndicador:mensagem.id_indicador}).$promise.then(
                                        function(mensagem){
                                                alert('O indicador foi
inserido com sucesso.');
                                        },
                                        function(erro){
                                                alert('Ocorreu um erro ao
salvar a composição do indicador. Mensagem de erro:\n\n' + erro.data);
                                        }
                        );
                        Indicador.query(function(indicadores) {
                                $rootScope.indicadores = indicadores;
                                $scope.filtrarInstrumento();
                        });
                },
                function(erro){
                        alert('Ocorreu um erro ao inserir o indicador.
Mensagem de erro:\n\n' + erro.data);
                }
        );
        $scope.$parent.estado = "listar";
        $scope.carregarIndicador();
    };
    $scope.voltar = function(){
        $scope.idIndicadorAtivo = null;
        $scope.estado = "listar";
    };
    $scope.fecharModal = function(){
        $rootScope.modalConfirmacao.close();
    };
    $scope.submeter = function(){
        if($scope.acao == 'Atualizar')
                $scope.atualizar();
        else
                if($scope.acao == 'Remover')
                        $scope.remover();
                else
                        if($scope.acao == 'Inserir')
                                $scope.inserir();
                        else
                                if($scope.acao == 'Calcular')
                                        $scope.calcular();

        $rootScope.modalConfirmacao.close();
    };
```

```javascript
$scope.desabilitarAtivo = function(){
        if($scope.indicadorAtivo.homologacao)
                $scope.indicadorAtivo.ativo = false;
};

$scope.desabilitarHomologacao = function(){
        if($scope.indicadorAtivo.ativo)
                $scope.indicadorAtivo.homologacao = false;
};

$scope.deletarElemento = function(indice){
        $scope.indicadorComposicao.splice(indice,1);
};

function Workbook() {
        if(!(this instanceof Workbook)) return new Workbook();
        this.SheetNames = [];
        this.Sheets = {};
}

function criarCelula(c, r, val){
        var cell = {v: val };

        if(cell.v == null) cell.v = '';

        if(typeof cell.v === 'number') cell.t = 'n';
        else if(typeof cell.v === 'boolean') cell.t = 'b';
        else if(cell.v instanceof Date) {
                cell.t = 'n'; cell.z = XLSX.SSF._table[14];
                cell.v = datenum(cell.v);
        }
        else cell.t = 's';

        return cell;
}

function s2ab(s) {
        var buf = new ArrayBuffer(s.length);
        var view = new Uint8Array(buf);
        for (var i=0; i!=s.length; ++i) view[i] = s.charCodeAt(i) & 0xFF;
        return buf;
}

$scope.exportarIndicadores = function(){
```

```javascript
var wb = new Workbook();

var wsindicador = {};

//criando cabeçalho
wsindicador[XLSX.utils.encode_cell({c:0 ,r:0})] =
criarCelula(0 ,0,'ID');
wsindicador[XLSX.utils.encode_cell({c:1 ,r:0})] =
criarCelula(1 ,0,'Nome');
wsindicador[XLSX.utils.encode_cell({c:2 ,r:0})] =
criarCelula(2 ,0,'Descrição Síntese');
wsindicador[XLSX.utils.encode_cell({c:3 ,r:0})] =
criarCelula(3 ,0,'Descrição Completa');
wsindicador[XLSX.utils.encode_cell({c:4 ,r:0})] =
criarCelula(4 ,0,'Nota técnica');
wsindicador[XLSX.utils.encode_cell({c:5 ,r:0})] =
criarCelula(5 ,0,'Instrumento de política urbana e ambiental');
wsindicador[XLSX.utils.encode_cell({c:6 ,r:0})] =
criarCelula(6 ,0,'Estratégia 1');
wsindicador[XLSX.utils.encode_cell({c:7 ,r:0})] =
criarCelula(7 ,0,'Estratégia 2');
wsindicador[XLSX.utils.encode_cell({c:8 ,r:0})] =
criarCelula(8 ,0,'Fórmula de cálculo');
wsindicador[XLSX.utils.encode_cell({c:9 ,r:0})] =
criarCelula(9 ,0,'Unidade de medida');
wsindicador[XLSX.utils.encode_cell({c:10,r:0})] =
criarCelula(10,0,'Fonte');
wsindicador[XLSX.utils.encode_cell({c:11,r:0})] =
criarCelula(11,0,'Periodicidade de atualização');
wsindicador[XLSX.utils.encode_cell({c:12,r:0})] =
criarCelula(12,0,'Série histórica');

wsindicador[XLSX.utils.encode_cell({c:13,r:0})] =
criarCelula(13,0,'Município');
wsindicador[XLSX.utils.encode_cell({c:14,r:0})] =
criarCelula(14,0,'Macrorregião');
wsindicador[XLSX.utils.encode_cell({c:15,r:0})] =
criarCelula(15,0,'Macroárea');
wsindicador[XLSX.utils.encode_cell({c:16,r:0})] =
criarCelula(16,0,'Prefeitura Regional');
wsindicador[XLSX.utils.encode_cell({c:17,r:0})] =
criarCelula(17,0,'Distrito');
wsindicador[XLSX.utils.encode_cell({c:18,r:0})] =
criarCelula(18,0,'Perímetro de incentivo');
wsindicador[XLSX.utils.encode_cell({c:19,r:0})] =
criarCelula(19,0,'ZDE e ZPI');
```

```javascript
                    wsindicador[XLSX.utils.encode_cell({c:20,r:0})] =
criarCelula(20,0,'Operação Urbana Consorciada');
                    wsindicador[XLSX.utils.encode_cell({c:21,r:0})] =
criarCelula(21,0,'ZEIS');
                    wsindicador[XLSX.utils.encode_cell({c:22,r:0})] =
criarCelula(22,0,'ZEPEC');


                linha = 1;


        angular.forEach($scope.indicadores,function(indicador,chave){

                    coluna = 0, //linha = 0;

        wsindicador[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,indicador.id_indicador);
                    coluna++;

        wsindicador[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,indicador.nome);
                    coluna++;

        wsindicador[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,indicador.apresentacao);
                    coluna++;

        wsindicador[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,indicador.nota_tecnica_resumida);
                    coluna++;

        wsindicador[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,indicador.nota_tecnica);
                    coluna++;

        wsindicador[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,indicador.instrumento);
                    coluna++;
                    colunaEstrategia = coluna + 2;

        angular.forEach(indicador.estrategias,function(estrategia,chave){
                        if(estrategia){

        wsindicador[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,estrategia.nome);
                        }
                        coluna++;
```

```javascript
					});
					coluna = colunaEstrategia;

		wsindicador[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,indicador.formula_calculo);
						coluna++;

		wsindicador[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,indicador.tipo_valor);
						coluna++;

		wsindicador[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,indicador.fonte);
						coluna++;

		wsindicador[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,indicador.periodicidade);
						coluna++;

						var tipoFormatoData = indicador.periodicidade ==
'anual' ? 'yyyy' : 'MMMM yyyy';

						if(indicador.datas){
							var serieHistorica =
$filter('date')(indicador.datas[indicador.datas.length-1] , tipoFormatoData) +
' a ' + $filter('date')(indicador.datas[0], tipoFormatoData);
							if(indicador.datas[0]){

		wsindicador[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha, serieHistorica);
							}
						}
						coluna++;

		angular.forEach(indicador.territorios,function(territorio,chave){

						if(territorio){
							var colunaTerritorio = coluna;
							switch(territorio.nome){
							case 'Município':
								colunaTerritorio = coluna;
								break;
							case 'Macrorregião':
								colunaTerritorio = coluna +
1;

								break;
```

```javascript
                                                case 'Macroárea':
                                                    colunaTerritorio = coluna +
2;
                                                    break;
                                                case 'Prefeitura Regional':
                                                    colunaTerritorio = coluna +
3;
                                                    break;
                                                case 'Distrito':
                                                    colunaTerritorio = coluna +
4;
                                                    break;
                                                case 'Perímetro de Incentivo':
                                                    colunaTerritorio = coluna +
5;
                                                    break;
                                                case 'ZDE e ZPI':
                                                    colunaTerritorio = coluna +
6;
                                                    break;
                                                case 'Operação Urbana consorciada':
                                                    colunaTerritorio = coluna +
7;
                                                    break;
                                                case 'ZEIS':
                                                    colunaTerritorio = coluna +
8;
                                                    break;
                                                case 'ZEPEC':
                                                    colunaTerritorio = coluna +
9;
                                                    break;
                                            }


        wsindicador[XLSX.utils.encode_cell({c:colunaTerritorio,r:linha})] =
criarCelula(colunaTerritorio,linha,'X');
                                        }

                            });

                            linha++;

                        });

                        var range = {s: {c:0, r:0}, e: {c:22, r: linha}};
```

```javascript
                    wsindicador['!ref'] = XLSX.utils.encode_range(range);

                    /* add worksheet to workbook */
                    wb.SheetNames.push('Indicadores');
                    wb.Sheets['Indicadores'] = wsindicador;


                    var wbout = XLSX.write(wb, {bookType:'xlsx',
bookSST:false, type: 'binary'});

                    saveAs(new Blob([s2ab(wbout)],{type:"application/octet-
stream"}), "indicadores.xlsx");
        }

});
</script>
```

```php
<?php get_template_part('templates/page', 'header'); ?>
```

```html
<div class="content-page container text-justify" data-ng-app="monitoramentoPde"
data-ng-controller="cadastroIndicador">


<script type="text/ng-template" id="ModalConfirmacao.html">


<div class="modal-instrumento">
        <div class="modal-header">
    <h3 class="modal-title" id="modal-titulo-indicador"> {{acao}} indicador
<button class="btn btn-danger pull-right" type="button" ng-
click="fecharModal()">X</button></h3>
        </div>
        <div class="modal-body" id="modal-corpo-indicador">
                    Você irá {{acao.toLowerCase()}} o indicador
{{indicadorAtivo.nome}}. <br><br> {{acao!="Remover"?mensagemCalculo:""}}
<br><br> Confirme sua ação.
                    </div>
        <div class="modal-footer">
            <button class="btn btn-danger" type="button" ng-
click="fecharModal()">      Abortar</button>
            <button class="btn btn-success" type="button" ng-
click="submeter()">  Confirmar</button>
```

```
        </div>
</div>
</script>




<?php   the_content(); ?>
<?php

                    $autorizado = false;

                    //var_dump(wp_get_current_user());

                    if(is_user_logged_in()){
                            $usuario = wp_get_current_user();
                            foreach($usuario->roles as $role) {
                                    if(strtolower($role) == 'administrator')
                                            $autorizado = true;
                            }
                    }else
                            $autorizado = false;

                    if($autorizado){
 ?>




<form style="margin-bottom:2em;">


                    <button class="btn-primary" type="button" ng-
click="exportarIndicadores()"> Exportar relação de indicadores </button>

                    <input type="button" data-ng-show="estado!='inserir' &&
estado!='listar'" value="Novo indicador" class="btn-primary"
style="float:left;margin-right:1em;"      data-ng-click="limparForm()">

                    <span data-ng-show="estado!='inserir'">
                    <div class="elemento-cadastro">
                            <label for="instrumento_filtro"> Filtrar por
instrumento </label>
                            <br>
                            <div class="descricao-cadastro"><small>Selecione o
instrumento que o indicador pertence</small></div>
```

```html
                                    <select class="controle-cadastro" style="max-
width:100%;" data-ng-options="instrumento.id_grupo_indicador as
instrumento.nome for instrumento in instrumentos | orderBy: 'nome'" data-ng-
model="idInstrumentoAtivo" data-ng-change="filtrarInstrumento()"
id="instrumento_filtro">
                                            <option value=""> Sem filtro </option>
                                    </select>
                            </div>


                        <div class="elemento-cadastro">
                                <label for="indicador"> Indicador </label>
                                <br>
                                <div class="descricao-cadastro"><small> Selecione o
indicador </small></div>

                                <select class="controle-cadastro" style="max-
width:100%;" data-ng-model="idIndicadorAtivo" data-ng-
options="indicador.id_indicador as indicador.nome for indicador in indicadores
| orderBy: 'id_indicador' : true" data-ng-change="carregarIndicador()"
id="indicador">
                                    <option value=""></option>
                                    </select>
                            </div>

                            </span>

                            <span data-ng-show="estado!='listar'">
                            <div class="elemento-cadastro">
                                    <label for="nome"> Nome do indicador </label>
                                    <br>
                                    <div class="descricao-cadastro"><small> Defina o
nome que o indicador terá </small></div>

                                    <input class="controle-cadastro" type="text"
style="max-width:100%;width:100%;" data-ng-model="indicadorAtivo.nome"
id="nome"></input>
                            </div>


                        <div class="elemento-cadastro">
                                <label for="instrumento"> Nome do instrumento
</label>

                                <br>
                                <div class="descricao-cadastro"><small> Selecione o
instrumento que o indicador pertencerá </small></div>
```

```html
						<select class="controle-cadastro" style="max-
width:100%;" data-ng-options="instrumento.id_grupo_indicador as
instrumento.nome for instrumento in instrumentos | orderBy: 'nome'" data-ng-
model="indicadorAtivo.id_instrumento" id="instrumento">
						</select>
				</div>

				<div class="elemento-cadastro">
						<label for="ordem_instrumento"> Ordem no
instrumento </label>

						<br>
						<div class="descricao-cadastro"><small> Defina a
ordem que o indicador terá no instrumento</small></div>

						<input class="controle-cadastro" type="text"
style="max-width:50%;width:50%;" data-ng-
model="indicadorAtivo.ordem_instrumento" id="ordem_instrumento"></input>
				</div>

				<div class="elemento-cadastro">
						<label for="estrategia1"> Nome da primeira
estratégia </label>

						<br>
						<div class="descricao-cadastro"><small> Selecione a
estratégia que o indicador pertencerá </small></div>

						<select class="controle-cadastro" style="max-
width:100%;" data-ng-options="estrategia.id_grupo_indicador as estrategia.nome
for estrategia in estrategias | orderBy: 'nome' : true" data-ng-
model="indicadorAtivo.estrategias[0].id_grupo_indicador" id="estrategia1">
						</select>
				</div>

				<div class="elemento-cadastro">
						<label for="ordem_estrategia1"> Ordem na primeira
estratégia </label>

						<br>
						<div class="descricao-cadastro"><small> Defina a
ordem que o indicador terá na estratégia</small></div>

						<input class="controle-cadastro" type="text"
style="max-width:50%;width:50%;" data-ng-
model="indicadorAtivo.estrategias[0].ordem" id="ordem_estrategia1"></input>
				</div>
```

```html
<div class="elemento-cadastro">
    <label for="estrategia2"> Nome da segunda
estratégia </label>
    <br>
    <div class="descricao-cadastro"><small> Selecione a
segunda estratégia que o indicador pertencerá </small></div>

    <select class="controle-cadastro" style="max-
width:100%;" data-ng-options="estrategia.id_grupo_indicador as estrategia.nome
for estrategia in estrategias | orderBy: 'nome' : true" data-ng-
model="indicadorAtivo.estrategias[1].id_grupo_indicador" id="estrategia2">
    </select>
</div>

<div class="elemento-cadastro">
    <label for="ordem_estrategia2"> Ordem na segunda
estratégia </label>
    <br>
    <div class="descricao-cadastro"><small> Defina a
ordem que o indicador terá na segunda estratégia</small></div>

    <input class="controle-cadastro" type="text"
style="max-width:50%;width:50%;" data-ng-
model="indicadorAtivo.estrategias[1].ordem" id="ordem_estrategia2"></input>
</div>

<div class="elemento-cadastro">
    <label for="apresentacao"> Descrição síntese
</label>
    <br>
    <div class="descricao-cadastro"><small> Defina o
texto de descrição sintética, que explica o nome do indicador. Sugestão: até
150 caracteres. </small></div>

    <textarea rows="5" style="max-
width:100%;width:100%;" data-ng-model="indicadorAtivo.apresentacao"
id="apresentacao"></textarea>
</div>

<div class="elemento-cadastro">
    <label for="nota_tecnica_resumida"> Descrição
completa </label>
    <br>
    <div class="descricao-cadastro"><small> Defina o
texto de descrição completa, que contém as principais informações para o
cidadão entender o indicador. Sugestão: até 1000 caracteres. </small></div>
```

```html
                            <textarea rows="8" style="max-
width:100%;width:100%;" data-ng-model="indicadorAtivo.nota_tecnica_resumida"
id="nota_tecnica_resumida"></textarea>
                        </div>

                        <div class="elemento-cadastro">
                            <label for="nota_tecnica"> Nota técnica </label>
                            <br>
                            <div class="descricao-cadastro"><small> Defina o
texto de nota técnica, que contêm as informações complementares para o cidadão
entender o indicador. Sugestão: até 1.000 caracteres. </small></div>

                            <textarea rows="5" style="max-
width:100%;width:100%;" data-ng-model="indicadorAtivo.nota_tecnica"
id="nota_tecnica"></textarea>
                        </div>


                        <div class="elemento-cadastro">
                            <label for="periodicidade"> Periodicidade </label>
                            <br>
                            <div class="descricao-cadastro"><small> Selecione a
periodicidade com que o indicador será atualizado. </small></div>

                            <select class="controle-cadastro" data-ng-
model="indicadorAtivo.periodicidade" id="periodicidade">
                                <option value="">Sem data</option>
                                <option value="anual">Anual</option>
                                <option
value="semestral">Semestral</option>
                                <option
value="trimestral">Trimestral</option>
                                <option
value="mensal">Mensal</option>
                            </select>
                        </div>

                        <div class="elemento-cadastro">
                            <label for="fonte"> Fontes </label>
                            <br>
                            <div class="descricao-cadastro"><small>Defina as
fontes que fornecem os dados utilizados no indicador. </small></div>

                            <textarea rows="2" style="max-
width:100%;width:100%;" data-ng-model="indicadorAtivo.fonte"
```

```html
                    id="fonte"></textarea>
                    </div>

                    <div class="elemento-cadastro">
                            <label for="territorio_padrao"> Unidade territorial
de análise </label>

                            <br>
                            <div class="descricao-cadastro"><small> Selecione a
unidade territorial de análise inicial que aparecerá quando o cidadão ver o
indicador. </small></div>

                            <select class="controle-cadastro" style="max-
width:100%;" data-ng-options="territorio.id_territorio as territorio.nome for
territorio in territorios | orderBy: 'id_territorio' : true" data-ng-
model="indicadorAtivo.id_territorio_padrao" id="territorio_padrao">
                            </select>
                    </div>

                    <div class="elemento-cadastro">
                            <label for="metrica"> Métrica </label>
                            <br>
                            <div class="descricao-cadastro"><small> Defina a
métrica do indicador. </small></div>

                            <input type="text" class="controle-cadastro"
style="max-width:100%;width:100%;" data-ng-model="indicadorAtivo.tipo_valor"
id="metrica"></input>
                    </div>

                    <div class="elemento-cadastro">
                    <label for="simbolo_valor"> Símbolo da métrica </label>
                            <br>
                            <div class="descricao-cadastro"><small> Defina o
símbolo da métrica do indicador. </small></div>

                            <input type="text" class="controle-cadastro"
style="max-width:100%;width:100%;" data-ng-model="indicadorAtivo.simbolo_valor"
id="simbolo_valor"></input>
                    </div>




                    <div class="container elemento-cadastro"
style="background-color:#E5E5E5;border-color:#DDDDDD;border-width:1px;border-
style:solid;">
```

```html
<label> Fórmula de cálculo </label>
<br>
<small> Selecione as variáveis necessárias para composição
do cálculo do indicador. Caso deixe o campo em branco a informação não será
considerada para o cálculo do indicador. </small>
<br>
<div data-ng-repeat="composicao in indicadorComposicao |
orderBy : 'ordem'">
    <div class="row">
    <div class="col-sm-8">
        <label ng-attr-for="{{'variavel-
'+$index}}"><small>Nome da variável</small></label>
        </div>
        <div class="col-sm-3">
        <label ng-attr-for="{{'operador-
'+$index}}"><small>Operação aritmética</small></label>
        </div>
        </div>
        <div class="row">
        <div class="col-sm-8">
        <select class="controle-cadastro" ng-attr-
id="{{'variavel-' + $index}}" style="max-width:100%;" data-ng-
model="composicao.id_variavel" data-ng-options="variavel.id_variavel as
variavel.nome for variavel in variaveis | orderBy: 'nome'" data-ng-
change="carregar()" id="variavel">
            <option value=""></option>
        </select>
        </div>
        <div class="col-sm-3">
        <select class="controle-cadastro" ng-attr-
id="{{'operador-' + $index}}" data-ng-model="composicao.operador">
            <option value=""></option>
            <option value="+">Soma (+)</option>
            <option value="-">Subtração (-)</option>
            <option value="/">Divisão (/)</option>
            <option value="*">Multiplicação (*)</option>
        </select>
        </div>
        <div class="col-sm-1 pull-right">
            <button class="btn-danger" ng-
click="deletarElemento($index)">-</button>
        </div>
        </div>


</div>
```

```html
                        <input type="button" class="btn-primary" data-ng-
click="adicionarElemento()" value="Adicionar Variável" style="margin-
top:1em;margin-bottom:1em">
                        </div>
                        <div class="elemento-cadastro">
                                <label for="ativo"> Ativação </label>
                                <br>
                                <input type="checkbox" data-ng-
model="indicadorAtivo.ativo" id="ativo" data-ng-
click="desabilitarHomologacao()"></input>
                                        <div style="display:inline-block" class="descricao-
cadastro"><small> Selecione se o indicador está ativo na plataforma para
visualização. </small></div>

                        </div>

                        <div class="elemento-cadastro">
                                <label for="homologacao"> Homologação </label>
                                <br>
                                <input type="checkbox" data-ng-
model="indicadorAtivo.homologacao" id="homologacao" data-ng-
click="desabilitarAtivo()"></input>
                                        <div style="display:inline-block" class="descricao-
cadastro"><small> Selecione se o indicador está habilitado para visualização
somente dos administradores. </small></div>

                        </div>

                        <input type="button" class="btn-primary" data-ng-
show="estado!='inserir'" value="Atualizar" data-ng-
click="confirmarModal('Atualizar')">
                        <input type="button" class="btn-primary" data-ng-
show="estado!='inserir'" value="Remover" data-ng-
click="confirmarModal('Remover')">
                        <input type="button" class="btn-primary" data-ng-
show="estado!='inserir'" value="Calcular" data-ng-
click="confirmarModal('Calcular')">

                        </span>

                        <input type="button" class="btn-primary" data-ng-
show="estado!='inserir'" value="Novo indicador" data-ng-click="limparForm()">

                        <input type="button" class="btn-primary" data-ng-
show="estado=='inserir'" value="Gravar" data-ng-
```

```
                    click="confirmarModal('Inserir')">
                            <input type="button" class="btn-primary" data-ng-
            show="estado=='inserir'" value="Voltar" data-ng-click="voltar()">

            </form>




            <?php }else{ ?>
                            <h4> Você não possui autorização para visualizar esse
            conteúdo.</h4>
            <?php } ?>

            </div>
```

Cadastro_fonte_dados.php

```php
<?p
hp
    /**
     * Template Name: Cadastro Fonte Dados
     */
?>




    <script type="text/javascript">
    jQuery.noConflict();
    var app = angular.module('monitoramentoPde',
    ['ngResource','ngAnimate','ui.bootstrap','angular.filter']);
    app.factory('FonteDados',function($resource){
            return $resource('/wp-
    json/monitoramento_pde/v1/fontes_dados/:id',{id:'@id_fonte_dados'},{
                update:{
                        method:'PUT'
                },
                get:{
                        headers:{
                                'X-WP-Nonce': '<?php
    echo(wp_create_nonce('wp_rest')); ?>'
                        }
                },
```

```javascript
			query:{
				isArray:true,
				headers:{
					'X-WP-Nonce': '<?php
echo(wp_create_nonce('wp_rest')); ?>'
				}
			}
		});
});
app.factory('FonteDadosCarregar',function($resource){
	return $resource('/wp-
json/monitoramento_pde/v1/fontes_dados/carregar/:id',{id:'@id_fonte_dados'},{
			update:{
				method:'POST',
				transformRequest:
					function(data) {
						if (data === undefined)
							return data;
						var fd = new FormData();
						angular.forEach(data, function(value, key)
{
							if (value instanceof FileList) {
								if (value.length == 1) {
									fd.append(key,
value[0]);
								} else {
									angular.forEach(value,
function(file, index) {
										fd.append(key +
'_' + index, file);
									});
								}
							} else {

								if(value instanceof File){
									fd.append('arquivo',
value);
								}else if(value instanceof
Array){


	fd.append('arquivo', value[0]);
									}else


	fd.append(key, value);
							}
```

```
                                                });

                                                return fd;

                                        },
                                headers:{
                                        'X-WP-Nonce': '<?php
echo(wp_create_nonce('wp_rest')); ?>'
                                        ,'Content-type': undefined
                                }
                        }
                });
        });
        app.factory('Usuarios',function($resource){
                return $resource('/wp-json/wp/v2/users');
        });
        app.factory('Territorios',function($resource){
                return $resource('/wp-json/monitoramento_pde/v1/territorios');
        });
        app.factory('FonteDadosColuna',function($resource){
                return $resource('/wp-
json/monitoramento_pde/v1/fonte_dados_coluna/:id',{id:'@id_fonte_dados'},{
                        update:{
                                method:'PUT'
                        }
                });
        });
        app.controller("cadastroFonteDados", function($scope, $rootScope, $http,
$filter, $uibModal, FonteDados, Usuarios, FonteDadosCarregar, Territorios,
FonteDadosColuna) {
                $scope.lerArquivos = function(element) {

                        $scope.$apply(function($scope) {
                        // Turn the FileList object into an Array
                                $scope.arquivos = [];
                                for (var i = 0; i < element.files.length; i++) {
                                        $scope.arquivos.push(element.files[i])
                                }
                        });
                };
                $scope.inicializarDatepicker = {
                        datepickerMode: 'month',
                        minMode:'month'
                }

                $scope.apiNonce = '<?php  echo(wp_create_nonce('wp_rest')); ?>';
```

```javascript
    Usuarios.query(function(usuarios) {
                $rootScope.usuarios = usuarios;
        });

    Territorios.query(function(territorios){
                $scope.territorios = territorios;
    });

        FonteDados.query(function(fontesDados) {
                $rootScope.fontesDados = fontesDados;
        });

        $scope.estado = "listar";
        $rootScope.carregandoArquivo = false;
        $scope.tipoArquivo = [{
                nome: 'Excel (.xls)',
                id: 1
        },
        {
                nome: 'Excel (.xlsx)',
                id:2
        },
        {
                nome: 'CSV (.csv)',
                id:3
        }];

        $scope.carregar = function(){
                $scope.itemAtual = $rootScope.fontesDados.filter((fonteDados) =>
fonteDados.id_fonte_dados == $scope.idItemAtual)[0];
                if($scope.itemAtual != null){
                        if($scope.itemAtual.data_atualizacao != null)
                                $scope.itemAtual.data_atualizacao = new
Date($scope.itemAtual.data_atualizacao);

                        if($scope.itemAtual.data_inicial != null)
                                $scope.itemAtual.data_inicial = new
Date($scope.itemAtual.data_inicial);
                        if($scope.itemAtual.data_final != null)
                                $scope.itemAtual.data_final = new
Date($scope.itemAtual.data_final);

                        if($scope.itemAtual != null){
                                if($scope.itemAtual.data_inicial != null)
                                        $scope.checkDataInicial = true;
```

```
                    if($scope.itemAtual.data_final != null)
                        $scope.checkDataFinal = true;

                    if($scope.itemAtual.data_atualizacao != null)
                        $scope.checkDataAtualizacao = true;
            }

    FonteDadosColuna.query({id:$scope.itemAtual.id_fonte_dados},function(col
unas){

                    $scope.colunas = colunas;
                    $scope.estado = "selecionar";
            });
        }else{
            $scope.colunas = null;
        }

};


$scope.confirmarModal = function(acao){
    $rootScope.modalConfirmacao = $uibModal.open({
                animation: true,
                ariaLabelledBy: 'modal-titulo-fonte-dados',
                ariaDescribedBy: 'modal-corpo-fonte-dados',
                templateUrl: 'ModalConfirmacao.html',
                controller: 'cadastroFonteDados',
                scope:$scope,
                size: 'md',
    });
    $scope.acao = acao;
};


$scope.inserirForm = function(){
    $scope.idItemAtual = null;
    $scope.carregar();
    $scope.estado = "inserir";
};


$scope.atualizar = function(){
    $rootScope.itemAtual = $scope.itemAtual;

    FonteDadosColuna.update({colunas:$scope.colunas,id_fonte_dados:$scope.it
emAtual.id_fonte_dados}).$promise.then(
                function(mensagem){

    FonteDados.update({fonte_dados:$rootScope.itemAtual}).$promise.then(
```

```javascript
                                    function(mensagem){
                                        alert('A fonte de dados foi
atualizada com sucesso.');

        FonteDados.query(function(fontesDados) {
                                            $rootScope.fontesDados =
fontesDados;
                                    });
                                },
                                function(erro){
                                    alert('Ocorreu um erro ao atualizar
a fonte de dados. Mensagem de erro:\n\n' + erro.data);
                                }
                            );
                    },
                    function(erro){
                        alert('Ocorreu um erro ao atualizar as colunas da
fonte de dados. Mensagem de erro:\n\n' + erro.data);
                    }
                );
        };

        $scope.remover = function(){

        FonteDadosColuna.remove({id:$scope.itemAtual.id_fonte_dados}).$promise.t
hen(

                    function(mensagem){

        FonteDados.remove({id:$scope.itemAtual.id_fonte_dados}).$promise.then(
                                function(mensagem){
                                    alert('A fonte de dados foi removida
com sucesso.');

        FontesDados.query(function(fontesDados) {
                                            $rootScope.fontesDados =
fontesDados;
                                    });
                                },
                                function(erro){
                                    alert('Ocorreu um erro ao remover a
fonte de dados. Mensagem de erro:\n\n' + erro.data);
                                }
                            );
                    },
                    function(erro){
                        alert('Ocorreu um erro ao remover as colunas da
```

```javascript
fonte de dados. Mensagem de erro:\n\n' + erro.data);
                    }
            );


        $scope.$parent.idItemAtual = null;
        $scope.$parent.estado = "listar";
    };
    $scope.carregarArquivo = function(){
        if(!$rootScope.carregandoArquivo){
            $rootScope.carregandoArquivo = true;
            $rootScope.mensagemArquivo = 'Aguarde... Realizando
Carga';


    FonteDadosCarregar.update({id_fonte_dados:$scope.itemAtual.id_fonte_dado
s,arquivos:$scope.arquivos}).$promise.then(
                    function(mensagem){
                        alert('A fonte de dados foi carregada com
sucesso.');

                        $rootScope.carregandoArquivo = false;
                        $rootScope.mensagemArquivo = '';
                    },
                    function(erro){
                        alert('Ocorreu um erro ao atualizar a fonte
de dados. Mensagem de erro:\n\n' + erro.data);
                        $rootScope.carregandoArquivo = false;
                        $rootScope.mensagemArquivo = '';
                    }
                );
        }else{
            alert('Uma carga de fonte de dados já está acontecendo,
espere ela acabar para iniciar outra');
        };
    }

    $scope.inserir = function(){
        FonteDados.save({fonte_dados:$scope.itemAtual}).$promise.then(
            function(mensagem){
                alert('A fonte de dados foi inserida com
sucesso.');
                FontesDados.query(function(fontesDados) {
                    $rootScope.fontesDados = fontesDados;
                });
            },
            function(erro){
```

```javascript
                            alert('Ocorreu um erro ao remover a fonte de dados.
Mensagem de erro:\n\n' + erro.data);
                    }
            );
            $scope.$parent.estado = "listar";
            $scope.carregar();
    };
    $scope.voltar = function(){
            $scope.estado = "listar";
    };
    $scope.fecharModal = function(){
            $rootScope.modalConfirmacao.close();
    };
    $scope.changeDataInicial = function(){
            if(!$scope.checkDataInicial)
                    $scope.itemAtual.data_inicial = null;
    }

    $scope.changeDataAtualizacao = function(){
            if(!$scope.checkDataAtualizacao)
                    $scope.itemAtual.data_atualizacao = null;
    }

    $scope.changeDataFinal = function(){
            if(!$scope.checkDataFinal)
                    $scope.itemAtual.data_final = null;
    }

    $scope.submeter = function(){
            if($scope.acao == 'Atualizar')
                    $scope.atualizar();
            else
                    if($scope.acao == 'Remover')
                            $scope.remover();
                    else
                            if($scope.acao == 'Inserir')
                                    $scope.inserir();
                            else
                                    if($scope.acao == 'Carregar')
                                            $scope.carregarArquivo();

            $rootScope.modalConfirmacao.close();
    };

    $scope.adicionarElementoColuna = function(){
            if($scope.colunas == null){
```

```javascript
				$scope.colunas = [];
		}

		$scope.colunas.push({});
};

$scope.adicionarElementoColunaExclusao = function(){
		if($scope.itemAtual.colunas_exclusao == null){
				$scope.itemAtual.colunas_exclusao = [];
		}
		$scope.itemAtual.colunas_exclusao.push(null);

};

$scope.deletarElementoColuna = function(indice){
		$scope.colunas.splice(indice,1);
};

$scope.deletarElementoColunaExclusao = function(indice){
		$scope.itemAtual.colunas_exclusao.splice(indice,1);
};

function Workbook() {
		if(!(this instanceof Workbook)) return new Workbook();
		this.SheetNames = [];
		this.Sheets = {};
}

function criarCelula(c, r, val){
		var cell = {v: val };

		if(cell.v == null) cell.v = '';

		if(typeof cell.v === 'number') cell.t = 'n';
		else if(typeof cell.v === 'boolean') cell.t = 'b';
		else if(cell.v instanceof Date) {
				cell.t = 'n'; cell.z = XLSX.SSF._table[14];
				cell.v = datenum(cell.v);
		}
		else cell.t = 's';

		return cell;
}

function s2ab(s) {
		var buf = new ArrayBuffer(s.length);
```

```javascript
            var view = new Uint8Array(buf);
            for (var i=0; i!=s.length; ++i) view[i] = s.charCodeAt(i) & 0xFF;
            return buf;
        }


    $scope.exportarFontesDados = function(){

                var wb = new Workbook();

                var wsFontesDados = {};

                //criando cabeçalho
                wsFontesDados[XLSX.utils.encode_cell({c:0 ,r:0})] =
criarCelula(0 ,0,'ID');
                wsFontesDados[XLSX.utils.encode_cell({c:1 ,r:0})] =
criarCelula(1 ,0,'Nome');
                wsFontesDados[XLSX.utils.encode_cell({c:2 ,r:0})] =
criarCelula(2 ,0,'Usuário Mantenedor');
                wsFontesDados[XLSX.utils.encode_cell({c:3 ,r:0})] =
criarCelula(3 ,0,'Nome da tabela');
                wsFontesDados[XLSX.utils.encode_cell({c:4 ,r:0})] =
criarCelula(4 ,0,'Linha de cabeçalho');
                wsFontesDados[XLSX.utils.encode_cell({c:5 ,r:0})] =
criarCelula(5 ,0,'Disponível para exportação');
                wsFontesDados[XLSX.utils.encode_cell({c:6 ,r:0})] =
criarCelula(6 ,0,'Data atualização');

                linha = 1;


    angular.forEach($rootScope.fontesDados,function(fonteDados,chave){

                    console.log(fonteDados);

                    coluna = 0, //linha = 0;

    wsFontesDados[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,fonteDados.id_fonte_dados);
                    coluna++;

    wsFontesDados[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,fonteDados.nome);
                    coluna++;
                    var usuario = $scope.usuarios.filter((usuario) =>
usuario.id == fonteDados.id_usuario_mantenedor)[0];
                    if(usuario){
```

```javascript
                wsFontesDados[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,usuario.name);
                                }
                                coluna++;

            wsFontesDados[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,fonteDados.nome_tabela);
                                coluna++;

            wsFontesDados[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,fonteDados.linha_cabecalho);
                                coluna++;

            wsFontesDados[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,(fonteDados.ativa==true)?'X':null );
                                coluna++;

            wsFontesDados[XLSX.utils.encode_cell({c:coluna,r:linha})] =
criarCelula(coluna,linha,$filter('date')(fonteDados.data_atualizacao , 'MMMM
yyyy') );
                                coluna++;

                                linha++;

                        });

                        var range = {s: {c:0, r:0}, e: {c:22, r: linha}};
                        wsFontesDados['!ref'] = XLSX.utils.encode_range(range);

                        /* add worksheet to workbook */
                        wb.SheetNames.push('Variaveis');
                        wb.Sheets['Variaveis'] = wsFontesDados;


                        var wbout = XLSX.write(wb, {bookType:'xlsx',
bookSST:false, type: 'binary'});

                        saveAs(new Blob([s2ab(wbout)],{type:"application/octet-
stream"}), "fontes_dados.xlsx");
        }


});
</script>
```

```php
<?php get_template_part('templates/page', 'header'); ?>


<div class="content-page container text-justify" data-ng-app="monitoramentoPde"
data-ng-controller="cadastroFonteDados">


<script type="text/ng-template" id="ModalConfirmacao.html">


<div class="modal-instrumento">
        <div class="modal-header">
    <h3 class="modal-title" id="modal-titulo-fonte-dados"> {{acao}} Fonte de
dados <button class="btn btn-danger pull-right" type="button" ng-
click="fecharModal()">X</button></h3>
        </div>
        <div class="modal-body" id="modal-corpo-fonte-dados">
                    Você irá {{acao.toLowerCase()}} a fonte de dados
{{itemAtual.nome}}. <br><br> Confirme sua ação.
                    </div>
        <div class="modal-footer">
            <button class="btn btn-danger" type="button" ng-
click="fecharModal()">      Abortar</button>
            <button class="btn btn-success" type="button" ng-
click="submeter()">  Confirmar</button>
        </div>
</div>
</script>




<?php the_content(); ?>
<?php
                    $autorizado = false;

                    if(is_user_logged_in()){
                            $usuario = wp_get_current_user();
                            $role = '';
                            foreach($usuario->roles as $role) {
                                    if(strtolower($role) == 'mantenedor' &&
$role != 'administrator'){
                                            $role = 'mantenedor';
```

```php
                                $autorizado = true;
                        }else
                                if(strtolower($role) ==
'administrator'){

                                        $role = 'administrator';
                                        $autorizado = true;
                                }
                        }
                }else
                        $autorizado = false;

                if($autorizado){

 ?>


<form>

                <button class="btn-primary" type="button" ng-
click="exportarFontesDados()"> Exportar relação de fontes de dados </button>

                                <p data-ng-show="estado!='inserir'">
                                <label for="fonte_dados"> Fonte de dados </label>
                                <br>
                                <select style="max-width:100%;" data-ng-
model="idItemAtual" data-ng-options="fonteDados.id_fonte_dados as
fonteDados.nome for fonteDados in fontesDados | orderBy: 'nome'" data-ng-
change="carregar()" name="fonte_dados"></select>
                                </p>

                        <span data-ng-show="estado!='listar'">

                        <?php if($role == 'administrator'){ ?>
                                <p>


                                <label for="nome"> Nome </label>
                                <br>
                                <input type="text" style="max-
width:100%;width:100%;" data-ng-model="itemAtual.nome" name="nome"></input>


                                </p>
                                <p>
                                        <label for="usuario"> Usuário mantenedor </label>
                                        <br>
```

```html
                        <select style="max-width:100%;" data-ng-
model="itemAtual.id_usuario_mantenedor" data-ng-options="usuario.id as
usuario.name for usuario in usuarios | orderBy: 'name' : true"
name="usuario"></select>
                    </p>

                    <!--<p>
                    <label for="delimitador"> Delimitador </label>
                    <br>
                    <input type="text" style="max-
width:100%;width:100%;" data-ng-model="itemAtual.delimitador"
name="delimitador"></input>
                    </p>-->
                    <!--
                    <p>
                        <label for="diretorio"> Diretorio </label>
                        <br>
                        <input type="text" style="max-
width:100%;width:100%;" data-ng-model="itemAtual.diretorio"
name="diretorio"></input>
                    </p>
                    <p>
                        <label for="diretorio"> Formato de arquivo </label>
                        <br>
                        <input type="text" style="max-
width:100%;width:100%;" data-ng-model="itemAtual.formato_arquivo"
name="formato_arquivo"></input>
                    </p>
                    -->
                    <p>
                    <label for="nome_tabela"> Nome da tabela </label>
                    <br>
                    <input type="text" style="max-
width:100%;width:100%;" data-ng-model="itemAtual.nome_tabela"
name="nome_tabela"></input>
                    </p>

                    <p>
                    <label for="linha_cabecalho"> Linha de cabeçalho
</label>
                    <br>
                    <input type="text" style="max-
width:100%;width:100%;" data-ng-model="itemAtual.linha_cabecalho"
name="linha_cabecalho"></input>

                    </p>
```

```html
<p>
<input type="checkbox" data-ng-
model="itemAtual.ativa" id="ativo">
<label for="ativo"> Disponível para exportação
</label>

</p>
<div class="row">
<div class="col-md-6">
<input type="checkbox" data-ng-
model="checkDataAtualizacao" data-ng-change="changeDataAtualizacao()">
<label for="data_atualizacao"> Data Atualização
</label>

<br>
<div uib-datepicker datepicker-
options="inicializarDatepicker" data-ng-model="itemAtual.data_atualizacao"
data-ng-show="checkDataAtualizacao" name="data_atualizacao"></div>
</div>
</div>
<!--<div class="row">

<div class="col-md-6">
<label for="data_inicial"> Data Inicial </label>
<input type="checkbox" data-ng-
model="checkDataInicial" data-ng-change="changeDataInicial()">
<br>
<div uib-datepicker datepicker-
options="inicializarDatepicker" data-ng-model="itemAtual.data_inicial" data-ng-
show="checkDataInicial" name="data_inicial"></div>
</div>

<div class="col-md-6">
<label for="data_inicial"> Data Final </label>
<input type="checkbox" data-ng-
model="checkDataFinal" data-ng-change="changeDataFinal()">
<br>
<div uib-datepicker datepicker-
options="inicializarDatepicker" data-ng-model="itemAtual.data_final" data-ng-
show="checkDataFinal" name="data_final"></div>
</div>

</div>-->

<label for="script"> Script SQL </label>
<textarea rows="5" style="max-
```

```html
width:100%;width:100%;" data-ng-model="itemAtual.script_sql"
name="script"></textarea>

                              <div class="container elemento-cadastro"
style="background-color:#E5E5E5;border-color:#DDDDDD;border-width:1px;border-
style:solid;">
                        <label> Colunas da fonte dados </label>
                        <div><small> Cadastre as colunas de território e data da
fonte de dados. Caso deixe o campo em branco a informação não será considerada
para a composição da variável </small></div>
                        <div data-ng-repeat="coluna in colunas | orderBy :
'ordem'">
                              <div class="row">
                                    <div class="col-sm-2"> <label ng-attr-
for="{{'tipo-'+$index}}"><small>Selecione o tipo da coluna </small> </label>
</div>
                                          <div class="col-sm-3" ng-if="coluna.tipo">
<label ng-attr-for="{{'nome-'+$index}}"><small> Escolha a coluna
</small></label></div>
                                          <div class="col-sm-4" ng-if="coluna.tipo
=='data'"> <label ng-attr-for="{{'formato-'+$index}}"><small> Formato de data
</small></label></div>
                                          <div class="col-sm-3" ng-if="coluna.tipo
=='territorio'"> <label ng-attr-for="{{'id_territorio-'+$index}}"><small>
Territorio </small></label></div>
                                          <div class="col-sm-3" ng-if="coluna.tipo
=='territorio'"> <label ng-attr-for="{{'tipo_territorio-'+$index}}"><small>
Tipo de territorio </small></label></div>

                              </div>
                              <div class="row">
                              <div class="col-sm-2">
                              <select class="controle-cadastro" data-ng-
model="coluna.tipo" ng-attr-id="{{'tipo-'+$index}}">
                                    <option value=""></option>
                                    <option value="data">Data</option>
                                    <option
value="territorio">Territorio</option>
                                    <option value="inteiro">Número</option>
                              </select>

                              </div>
                              <div class="col-sm-3" ng-if="coluna.tipo">
                              <select class="controle-cadastro" style="max-
width:100%;" data-ng-options="coluna_base as coluna_base for coluna_base in
itemAtual.colunas" data-ng-model="coluna.nome" ng-attr-id="{{'nome-'+$index}}">
```

```html
                                            <option value=""></option>
                                        </select>
                                        </div>


                                        <div class="col-sm-4" ng-if="coluna.tipo =='data'">
                                            <input class="controle-cadastro"
type="text" style="max-width:100%;width:100%;" data-ng-model="coluna.formato"
ng-attr-id="{{'formato-'+$index}}" ></input>
                                        </div>
                                        <div class="col-sm-3" ng-if="coluna.tipo
=='territorio'">
                                        <select class="controle-cadastro" style="max-
width:100%;" data-ng-options="territorio.id_territorio as territorio.nome for
territorio in territorios" data-ng-model="coluna.id_territorio" ng-attr-
id="{{'id_territorio-'+$index}}">
                                                <option value=""></option>
                                        </select>
                                        </div>
                                        <div class="col-sm-3" ng-if="coluna.tipo
=='territorio'">
                                            <input class="controle-cadastro"
type="text" style="max-width:100%;width:100%;" data-ng-
model="coluna.tipo_territorio" ng-attr-id="{{'tipo_territorio-'+$index}}"
></input>
                                        </div>
                                        <div class="col-sm-1 pull-right"> <button ng-
click="deletarElementoColuna($index)">-</button>
                                        </div>

                                </div>
                                </div>
                                <button type="button" style="margin-top:1em;margin-
bottom:1em" data-ng-click="adicionarElementoColuna()">Adicionar Filtro</button>
                                </div>

                                <div class="container elemento-cadastro"
style="background-color:#E5E5E5;border-color:#DDDDDD;border-width:1px;border-
style:solid;">
                                <label> Excluir colunas da exportação de dados </label>
                                <div><small> Escolha as colunas que não devem ser exibidas
na exportação da fonte de dados </small></div>
                                <div data-ng-repeat="coluna_exclusao in
itemAtual.colunas_exclusao track by $index">
                                        <div class="row">
                                            <div class="col-sm-11"> <label ng-attr-
```

```html
                            for="{{'coluna_exclusao-'+$index}}"><small>Selecione a coluna </small> </label>
</div>
                                </div>
                                <div class="row">


                                <div class="col-sm-6">
                                <select class="controle-cadastro"
style="width:100%;" data-ng-options="coluna_base as coluna_base for coluna_base
in itemAtual.colunas" data-ng-model="itemAtual.colunas_exclusao[$index]" ng-
attr-id="{{'coluna_exclusao-'+$index}}">
                                        <option value=""></option>
                                </select>
                                </div>


                                <div class="col-sm-1"> <button ng-
click="deletarElementoColunaExclusao($index)">-</button>
                                </div>

                        </div>
                        </div>
                        <button type="button" style="margin-top:1em;margin-
bottom:1em" data-ng-click="adicionarElementoColunaExclusao()">Adicionar coluna
a ser excluída</button>
                        </div>




                        <input type="submit" data-ng-show="estado!='inserir'"
value="Atualizar" data-ng-click="confirmarModal('Atualizar')">
                        <input type="submit" data-ng-show="estado!='inserir'"
value="Remover" data-ng-click="confirmarModal('Remover')">

                        <?php } ?>

                        <p>
                        <label for="arquivo"> Selecione o arquivo </label>
                        <br>
                        <input type="file" style="max-
width:100%;width:100%;" data-ng-model-instant id="arquivos" name="arquivos"
onchange="angular.element(this).scope().lerArquivos(this)">

                        </p>
```

```
                            <input type="submit" data-ng-show="estado!='inserir'"
value="Carregar Arquivo" data-ng-click="confirmarModal('Carregar')">
                            </span>
                            <?php if($role == 'administrator'){ ?>
                            <input data-ng-show="estado!='inserir'" type="submit"
value="Nova Fonte de dados" data-ng-click="inserirForm()">

                            <br>
                            <!--<div class="alert alert-info" ng-
show="carregandoArquivo">{{mensagemArquivo}}</div>-->

                            <input data-ng-show="estado=='inserir'" type="submit"
value="Gravar" data-ng-click="confirmarModal('Inserir')">
                            <input data-ng-show="estado=='inserir'" type="submit"
value="Voltar" data-ng-click="voltar()">
                            <?php }?>

        </form>


<?php }else{ ?>
                            <h4> Você não possui autorização para visualizar esse
conteúdo.</h4>
<?php } ?>


        </div>
```

Acoes_prioritarias.php

```php
<?php
    /**
     * Template Name: Ações prioritárias
     */
    ?>


    <?php while (have_posts()) : the_post(); ?>
      <?php get_template_part('templates/page', 'header'); ?>
      <?php get_template_part('templates/content', 'acoes-prioritarias'); ?>
    <?php endwhile; ?>
```

Setup.php

```php
<?php
    namespace Roots\Sage\Setup;
```

```php
use Roots\Sage\Assets;
/**
 * Theme setup
 */
function setup() {
  // Enable features from Soil when plugin is activated
  // https://roots.io/plugins/soil/
  /*add_theme_support('soil-clean-up');
  add_theme_support('soil-nav-walker');
  add_theme_support('soil-nice-search');
  add_theme_support('soil-jquery-cdn');
  add_theme_support('soil-relative-urls');*/
  // Make theme available for translation
  // Community translations can be found at https://github.com/roots/sage-translations
  load_theme_textdomain('sage', get_template_directory() . '/lang');
  // Enable plugins to manage the document title
  // http://codex.wordpress.org/Function_Reference/add_theme_support#Title_Tag
  add_theme_support('title-tag');
  // Register wp_nav_menu() menus
  // http://codex.wordpress.org/Function_Reference/register_nav_menus
  register_nav_menus([
    'secoes' => __('Navegação por seções', 'sage'),
          'formas' => __('Formas de visualização de indicadores', 'sage')
  ]);
  // Enable post thumbnails
  // http://codex.wordpress.org/Post_Thumbnails
  // http://codex.wordpress.org/Function_Reference/set_post_thumbnail_size
  // http://codex.wordpress.org/Function_Reference/add_image_size
  add_theme_support('post-thumbnails');
  // Enable post formats
  // http://codex.wordpress.org/Post_Formats
  add_theme_support('post-formats', ['aside', 'gallery', 'link', 'image', 'quote', 'video', 'audio']);
  // Enable HTML5 markup support
  // http://codex.wordpress.org/Function_Reference/add_theme_support#HTML5
  add_theme_support('html5', ['caption', 'comment-form', 'comment-list', 'gallery', 'search-form']);
  // Use main stylesheet for visual editor
  // To add custom styles edit /assets/styles/layouts/_tinymce.scss
  add_editor_style(Assets\asset_path('styles/main.css'));

      global $ApiConfig;
      $ApiConfig = array(
          'application' => 'monitoramento_pde',
```

```php
            'version' => '1'
        );
        global $DbConfig;
        $DbConfig = array(
            'host'     => '10.20.4.3',
            'port'     => '5432',
            'user'     => 'smdu',
            'dbname'   => 'MonitoramentoPDE',
            'password' => 'O&6zlfbN'
        );

}
add_action('after_setup_theme', __NAMESPACE__ . '\\setup');
/**
 * Register sidebars
 */
function widgets_init() {
  register_sidebar([
    'name'          => __('Primary', 'sage'),
    'id'            => 'sidebar-primary',
    'before_widget' => '<section class="widget %1$s %2$s">',
    'after_widget'  => '</section>',
    'before_title'  => '<h3>',
    'after_title'   => '</h3>'
  ]);
  register_sidebar([
    'name'          => __('Footer', 'sage'),
    'id'            => 'sidebar-footer',
    'before_widget' => '<section class="widget %1$s %2$s">',
    'after_widget'  => '</section>',
    'before_title'  => '<h3>',
    'after_title'   => '</h3>'
  ]);
}
add_action('widgets_init', __NAMESPACE__ . '\\widgets_init');
/**
 * Determine which pages should NOT display the sidebar
 */
function display_sidebar() {
  static $display;
  isset($display) || $display = !in_array(true, [
    // The sidebar will NOT be displayed if ANY of the following return true.
    // @link https://codex.wordpress.org/Conditional_Tags
    is_404(),
    is_front_page(),
    is_page_template('template-custom.php'),
```

```php
  ]);
  return apply_filters('sage/display_sidebar', $display);
}
/**
 * Theme assets
 */
function assets() {
  wp_enqueue_style('sage/css', Assets\asset_path('styles/main.css'), false,
null);
    if (is_single() && comments_open() && get_option('thread_comments')) {
      wp_enqueue_script('comment-reply');
    }
  wp_enqueue_script('sage/js', Assets\asset_path('scripts/main.js'),
['jquery'], null, true);

  wp_enqueue_script( 'highcharts', get_template_directory_uri() .
'/js/Highcharts-4.2.5/js/highcharts.js', false );
        wp_enqueue_script( 'highcharts_exporting',
get_template_directory_uri() . '/js/Highcharts-
4.2.5/js/modules/exporting.js', false );
        wp_enqueue_script( 'highcharts_offline_exporting',
get_template_directory_uri() . '/js/Highcharts-4.2.5/js/modules/offline-
exporting.js', false );
  wp_enqueue_script( 'highcharts_more', get_template_directory_uri() .
'/js/Highcharts-4.2.5/js/highcharts-more.js', false );
  wp_enqueue_script( 'angular', get_template_directory_uri() . '/js/angular-
1.5.8/angular.min.js', false );
  wp_enqueue_script( 'angular_resource', get_template_directory_uri() .
'/js/angular-1.5.8/angular-resource.min.js', false );
        wp_enqueue_script( 'angular_sanitize', get_template_directory_uri() .
'/js/angular-1.5.8/angular-sanitize.min.js', false );
  wp_enqueue_script( 'angular_animate', get_template_directory_uri() .
'/js/angular-1.5.8/angular-animate.min.js', false );
  wp_enqueue_script( 'angular_touch', get_template_directory_uri() .
'/js/angular-1.5.8/angular-touch.min.js', false );
  wp_enqueue_script( 'angular_ptbr', get_template_directory_uri() .
'/js/angular-1.5.8/angular-locale_pt-br.js',false );
  wp_enqueue_script( 'open_layers', get_template_directory_uri() .
'/js/OpenLayers-3.17.1/build/ol.js',false );
  wp_enqueue_script( 'angularui-bootstrap', get_template_directory_uri() .
'/js/angularui_bootstrap-2.0.2/ui-bootstrap-tpls-2.0.2.min.js',false );
  wp_enqueue_script( 'bootstrap-js', get_template_directory_uri() .
'/js/Bootstrap-3.3.7/bootstrap.min.js',false );
  wp_enqueue_script( 'angular-filter', get_template_directory_uri() .
'/js/angular-filter.js',false );
        wp_enqueue_script( 'angular-route', get_template_directory_uri() .
```

```php
        '/js/angular-route.js',false );
            wp_enqueue_script( 'blob', get_template_directory_uri() . '/js/js-
        xlsx/Blob.js',false );
            wp_enqueue_script( 'file_saver', get_template_directory_uri() .
        '/js/js-xlsx/FileSaver.js',false );
            wp_enqueue_script( 'jszip', get_template_directory_uri() . '/js/js-
        xlsx/jszip.js',false );
            wp_enqueue_script( 'js-xlsx', get_template_directory_uri() . '/js/js-
        xlsx/xlsx.js',false );
            wp_enqueue_script( 'cpexcel', get_template_directory_uri() . '/js/js-
        xlsx/cpexcel.js',false );

          wp_enqueue_style( 'open_layers', get_template_directory_uri() .
        '/css/ol.css' );
            wp_enqueue_style( 'font-awesome', get_template_directory_uri() .
        '/css/font-awesome.min.css' );
          wp_enqueue_style( 'bootstrap', get_template_directory_uri() .
        '/css/bootstrap-3.3.7/css/bootstrap.min.css' );
          wp_enqueue_style( 'monitoramento_pde', get_template_directory_uri() .
        '/style.css' );
        }
        add_action('wp_enqueue_scripts', __NAMESPACE__ . '\\assets', 100);
```

Api.php

```php
<
?
p
h
p
    //namespace MonitoramentoPde\API;
    use Roots\Sage\Setup;
    /**
     * Retorna os dados calculados dos indicadores
     *
     * @param array $data Options for the function.
     * @return string|null Post title for the latest,  * or null if none.
     */

    //TODO: criar tela de admin para essas configurações
    add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
    $ApiConfig['application'].'/v'.$ApiConfig['version'],
    '/indicador/valores/(?P<indicador>\d+)', array(
                'methods' => WP_REST_Server::READABLE,
```

```php
            'callback' => 'indicador_dados'
        ) );
} );

 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/ficha_tecnica_instrumento/(?P<instrumento>\d+)', array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'ficha_tecnica_instrumento'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/instrumentos', array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'instrumentos'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/territorios', array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'territorios'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/indicador/memoria/(?P<indicador>\d+)', array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'indicador_memoria'
        ) );
} );

   add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/indicador/fusao/(?P<id_indicador>\d+)', array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'indicador_fusao'
```

```php
            ) );
        } );
        add_action( 'rest_api_init', function () {
            global $ApiConfig;
            register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/dado_aberto/(?P<fonte_dados>\d+)', array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'dado_aberto'
            ) );
        } );
        add_action( 'rest_api_init', function () {
            global $ApiConfig;
            register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/indicador/fusao', array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'indicador_fusao'
            ) );
        } );

        add_action( 'rest_api_init', function () {
            global $ApiConfig;
            register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/indicador/fusao/(?P<id_indicador>\d+)', array(
                'methods' => 'POST',
                'callback' => 'atualizar_indicador_fusao'
            ) );
        } );
        add_action( 'rest_api_init', function () {
            global $ApiConfig;
            register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/indicador/fusao/(?P<id_indicador>\d+)', array(
                'methods' => 'PUT',
                'callback' => 'atualizar_indicador_fusao'
            ) );
        } );
        add_action( 'rest_api_init', function () {
            global $ApiConfig;
            register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/indicador/fusao/(?P<id>\d+)', array(
                'methods' => WP_REST_Server::DELETABLE,
                'callback' => 'deletar_indicador_fusao'
            ) );
```

```php
} );

 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/indicador/historico/(?P<indicador>\d+)', array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'indicador_historico'
        ) );
} );

   add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/variavel/historico/(?P<indicador>\d+)', array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'variavel_historico'
        ) );
} );

 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/indicador/(?P<indicador>\d+)', array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'indicador_cadastro'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/indicador_composicao/(?P<indicador>\d+)', array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'indicador_composicao'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/variavel/(?P<variavel>\d+)', array(
                'methods' => WP_REST_Server::READABLE,
```

```php
                'callback' => 'variavel_cadastro'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/variavel_filtro/(?P<variavel>\d+)', array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'variavel_filtro'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/fonte_dados_coluna/(?P<id_fonte_dados>\d+)', array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'fonte_dados_coluna'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/variavel', array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'variavel_cadastro'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/indicador/(?P<id>\d+)',
array(
                'methods' => WP_REST_Server::DELETABLE,
                'callback' => 'deletar_indicador'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/variavel/(?P<id>\d+)',
array(
                'methods' => WP_REST_Server::DELETABLE,
                'callback' => 'deletar_variavel'
        ) );
```

```php
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/indicador_composicao/(?P<id>\d+)', array(
                'methods' => WP_REST_Server::DELETABLE,
                'callback' => 'deletar_indicador_composicao'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/indicador', array(
                'methods' => 'POST',
                'callback' => 'inserir_indicador'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/indicador_composicao/(?P<id_indicador>\d+)', array(
                'methods' => 'POST',
                'callback' => 'atualizar_indicador_composicao'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/variavel_filtro/(?P<id_variavel>\d+)', array(
                'methods' => 'POST',
                'callback' => 'atualizar_variavel_filtro'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/variavel_filtro/(?P<id_variavel>\d+)', array(
                'methods' => 'PUT',
                'callback' => 'atualizar_variavel_filtro'
        ) );
} );
 add_action( 'rest_api_init', function () {
```

```php
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/fonte_dados_coluna/(?P<id_variavel>\d+)', array(
            'methods' => 'POST',
            'callback' => 'atualizar_coluna_fonte_dados'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/fonte_dados_coluna/(?P<id_variavel>\d+)', array(
            'methods' => 'PUT',
            'callback' => 'atualizar_coluna_fonte_dados'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/variavel_filtro/(?P<id>\d+)', array(
            'methods' => WP_REST_Server::DELETABLE,
            'callback' => 'deletar_variavel_filtro'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/fonte_dados_coluna/(?P<id>\d+)', array(
            'methods' => WP_REST_Server::DELETABLE,
            'callback' => 'deletar_fonte_dados_coluna'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/fonte_dados_coluna/(?P<id_fonte_dados>\d+)', array(
            'methods' => 'POST',
            'callback' => 'atualizar_fonte_dados_coluna'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
```

```php
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/fonte_dados_coluna/(?P<id_fonte_dados>\d+)', array(
                'methods' => 'PUT',
                'callback' => 'atualizar_fonte_dados_coluna'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/fonte_dados_coluna/(?P<id>\d+)', array(
                'methods' => WP_REST_Server::DELETABLE,
                'callback' => 'deletar_fonte_dados_coluna'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/variavel', array(
                'methods' => 'POST',
                'callback' => 'inserir_variavel'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/indicador', array(
                'methods' => 'PUT',
                'callback' => 'atualizar_indicador'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/grupo_indicador/(?P<id_grupo_indicador>\d+)', array(
                'methods' => 'PUT',
                'callback' => 'atualizar_grupo_indicador'
        ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/indicador_composicao/(?P<id_indicador>\d+)', array(
```

```php
            'methods' => 'PUT',
            'callback' => 'atualizar_indicador_composicao'
    ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/variavel', array(
            'methods' => 'PUT',
            'callback' => 'atualizar_variavel'
    ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/grupo_indicador/(?P<grupo>\d+)', array(
            'methods' => WP_REST_Server::READABLE,
            'callback' => 'grupo_indicador'
    ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/grupo_indicador', array(
            'methods' => WP_REST_Server::READABLE,
            'callback' => 'grupo_indicador'
    ) );
} );
 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/indicador', array(
            'methods' => WP_REST_Server::READABLE,
            'callback' => 'indicador_cadastro'
    ) );
} );

  add_action( 'rest_api_init', function () {
            global $ApiConfig;
            register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/acoes_prioritarias',
array(
                'methods' => WP_REST_Server::READABLE,
                'callback' => 'acoes_prioritarias'
                )
```

```php
            );
    });

    add_action( 'rest_api_init', function () {
            global $ApiConfig;
            register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/fontes_dados', array(
                    'methods' => WP_REST_Server::READABLE,
                    'callback' => 'fontes_dados'
                    )
            );
    });

    add_action( 'rest_api_init', function () {
            global $ApiConfig;
            register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/fontes_dados/(?P<fonte_dados>\d+)', array(
                    'methods' => WP_REST_Server::READABLE,
                    'callback' => 'fontes_dados_coluna'
                    )
            );
    });

 add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/fontes_dados/(?P<id>\d+)', array(
            'methods' => WP_REST_Server::DELETABLE,
            'callback' => 'deletar_fonte_dados'
        ) );
} );

  add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/fontes_dados', array(
            'methods' => 'PUT',
            'callback' => 'atualizar_fonte_dados'
        ) );
} );

        add_action( 'rest_api_init', function () {
         global $ApiConfig;
        register_rest_route(
```

```php
$ApiConfig['application'].'/v'.$ApiConfig['version'],
'/fontes_dados/carregar/(?P<id>\d+)', array(
            'methods' => 'POST',
            'callback' => 'carregar_fonte_dados'
        ) );
} );


    add_action( 'rest_api_init', function () {
        global $ApiConfig;
        register_rest_route(
$ApiConfig['application'].'/v'.$ApiConfig['version'], '/fontes_dados', array(
            'methods' => 'POST',
            'callback' => 'inserir_fonte_dados'
        ) );
} );



function deletar_variavel(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
            $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
            die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_string = "delete from sistema.variavel where id_variavel = :id";
        $comando = $pdo->prepare($comando_string);

    if(array_key_exists('id',$parametros))
            if($parametros['id'] != '')
                $comando->bindParam(':id',$parametros['id']);

        if(!$comando->execute()){
            $erro = $comando->errorInfo();
            $response = new  WP_REST_Response($erro[2], 500);
        }
        else
        {
            $response = new WP_REST_Response( true );
        }

        return $response;
}
```

```php
function deletar_variavel_filtro(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_string = "delete from sistema.variavel_filtro where id_variavel
= :id";
        $comando = $pdo->prepare($comando_string);

  if(array_key_exists('id',$parametros))
                if($parametros['id'] != '')
                        $comando->bindParam(':id',$parametros['id']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
        }
        else
        {
                $response = new WP_REST_Response( true );
        }

        return $response;
}

function deletar_fonte_dados(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_string = "delete from sistema.fonte_dados where id_fonte_dados =
:id";
```

```php
        $comando = $pdo->prepare($comando_string);

  if(array_key_exists('id',$parametros))
                if($parametros['id'] != '')
                        $comando->bindParam(':id',$parametros['id']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
        }
        else
        {
                $response = new WP_REST_Response( true );
        }

        return $response;
}
function deletar_fonte_dados_coluna(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_string = "delete from sistema.coluna where id_fonte_dados =
:id";
        $comando = $pdo->prepare($comando_string);

  if(array_key_exists('id',$parametros))
                if($parametros['id'] != '')
                        $comando->bindParam(':id',$parametros['id']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
        }
        else
        {
                $response = new WP_REST_Response( true );
        }

        return $response;
```

```php
    }
function deletar_indicador_fusao(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_string = "delete from sistema.indicador_composicao where
id_indicador_pai = :id";
        $comando = $pdo->prepare($comando_string);

  if(array_key_exists('id',$parametros))
                if($parametros['id'] != '')
                        $comando->bindParam(':id',$parametros['id']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
        }
        else
        {
                $response = new WP_REST_Response( true );
        }

        return $response;
}

function deletar_indicador(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_string = "delete from sistema.indicador where id_indicador =
:id";
        $comando = $pdo->prepare($comando_string);
```

```php
    if(array_key_exists('id',$parametros))
            if($parametros['id'] != '')
                    $comando->bindParam(':id',$parametros['id']);

    if(!$comando->execute()){
            $erro = $comando->errorInfo();
            $response = new  WP_REST_Response($erro[2], 500);
    }
    else
    {
            $response = new WP_REST_Response( true );
    }

    return $response;
}

function atualizar_indicador(WP_REST_Request $request){
    $parametros = $request->get_params();
    global $DbConfig;
    try {
            $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
    } catch (PDOException $e) {
            die("Conexão ao banco de dados falhou: " . $e->getMessage());
    }

    $indicador = $parametros['indicador'];

    $comando_string = "update sistema.indicador set
    nome = :nome,
    periodicidade = :periodicidade,
    tipo_valor = :tipo_valor,
    nota_tecnica = :nota_tecnica,
    nota_tecnica_resumida = :nota_tecnica_resumida,
    apresentacao = :apresentacao,
    simbolo_valor = :simbolo_valor,
    ativo = :ativo,
    homologacao = :homologacao,
    fonte = :fonte,
    id_territorio_padrao = :id_territorio_padrao,
    observacao = :observacao
    where id_indicador = :id_indicador";
    $comando = $pdo->prepare($comando_string);
```

```php
    if(array_key_exists('id_indicador',$indicador))
                if($indicador['id_indicador'] != ''){
                        $comando-
>bindParam(':id_indicador',$indicador['id_indicador']);
                        $comando->bindParam(':nome',$indicador['nome']);
                        $comando-
>bindParam(':periodicidade',$indicador['periodicidade']);
                        $comando-
>bindParam(':tipo_valor',$indicador['tipo_valor']);
                        $comando-
>bindParam(':nota_tecnica',$indicador['nota_tecnica']);
                        $comando-
>bindParam(':nota_tecnica_resumida',$indicador['nota_tecnica_resumida']);
                        $comando-
>bindParam(':apresentacao',$indicador['apresentacao']);
                        $comando-
>bindParam(':simbolo_valor',$indicador['simbolo_valor']);
                        $indicador['ativo'] = ($indicador['ativo'])?'t':'f';
                        $indicador['homologacao'] =
($indicador['homologacao'])?'t':'f';
                        $comando->bindParam(':ativo',$indicador['ativo']);
                        $comando-
>bindParam(':homologacao',$indicador['homologacao']);
                        $comando->bindParam(':fonte',$indicador['fonte']);
                        $comando-
>bindParam(':id_territorio_padrao',$indicador['id_territorio_padrao']);
                        $comando-
>bindParam(':observacao',$indicador['observacao']);
                }

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
        }
        else
        {
                $response = new WP_REST_Response( true );
        }

        return $response;
}

function atualizar_grupo_indicador(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
```

```php
            $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $grupo = $parametros['grupo'];

        $response = new WP_REST_Response( true );

        $comando_string = "delete from sistema.grupo_propriedade where
id_grupo_indicador = :id_grupo_indicador";
        $comando = $pdo->prepare($comando_string);

    if(array_key_exists('id_grupo_indicador',$parametros))
                if($parametros['id_grupo_indicador'] != '')
                        $comando-
>bindParam(':id_grupo_indicador',$parametros['id_grupo_indicador']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
        }else{
                $comando_string = "update sistema.grupo_indicador set nome =
:nome, tipo = :tipo where id_grupo_indicador = :id_grupo_indicador";
                $comando = $pdo->prepare($comando_string);

                $comando-
>bindParam(':id_grupo_indicador',$parametros['id_grupo_indicador']);
                $comando->bindParam(':tipo',$parametros['tipo']);
                $comando->bindParam(':nome',$grupo['nome']);

                if(!$comando->execute()){
                        $erro = $comando->errorInfo();
                        $response = new  WP_REST_Response($erro[2], 500);
                }
                else
                {
                        foreach($grupo['propriedades'] as $indice => $propriedade){

                                if($propriedade['chave'] != null){

                                        $comando_string = "insert into
sistema.grupo_propriedade (id_grupo_indicador,chave, valor, ordem)
```

```php
                    values (:id_grupo_indicador,:chave,:valor,:ordem)";
                        $comando = $pdo->prepare($comando_string);
                        //$ordem = $indice + 1;
                        $comando-
>bindParam(':id_grupo_indicador',$parametros['id_grupo_indicador']);
                        $comando-
>bindParam(':chave',$propriedade['chave']);
                        $comando-
>bindParam(':valor',$propriedade['valor']);
                        $comando-
>bindParam(':ordem',$propriedade['ordem']);

                        if(!$comando->execute()){
                            $erro = $comando->errorInfo();
                            $response = new
WP_REST_Response($erro[2], 500);
                        }
                    }
                }
            }
        }

        return $response;

}


function atualizar_indicador_composicao(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $composicao = $parametros['composicao'];

        $response = new WP_REST_Response( true );

        $comando_string = "delete from sistema.indicador_x_variavel where
id_indicador = :id_indicador";
        $comando = $pdo->prepare($comando_string);
```

```php
        if(array_key_exists('id_indicador',$parametros))
                if($parametros['id_indicador'] != '')
                        $comando-
>bindParam(':id_indicador',$parametros['id_indicador']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
        }
        else
        {
                foreach($composicao as $chave => $valor){

                        if($valor['id_variavel'] != null){

                                $comando_string = "insert into
sistema.indicador_x_variavel (id_indicador,id_variavel, operador, ordem,
aninhamento, principal)

        values
(:id_indicador,:id_variavel,:operador,:ordem,:aninhamento,:principal)";
                                $comando = $pdo->prepare($comando_string);
                                $ordem = $chave + 1;
                                $comando-
>bindParam(':id_indicador',$parametros['id_indicador']);
                                $comando-
>bindParam(':id_variavel',$valor['id_variavel']);
                                $comando->bindParam(':operador',$valor['operador']);
                                $comando->bindParam(':ordem',$ordem);
                                $comando-
>bindParam(':aninhamento',$valor['aninhamento']);
                                $comando-
>bindParam(':principal',$valor['principal']);

                                if(!$comando->execute()){
                                        $erro = $comando->errorInfo();
                                        $response = new  WP_REST_Response($erro[2],
500);
                                }
                        }
                }
        }

        $comando_string = "select sistema.calcular_indicador(:id_indicador)";
        $comando = $pdo->prepare($comando_string);
```

```php
    if(array_key_exists('id_indicador',$parametros))
                if($parametros['id_indicador'] != ''){
                        $comando-
>bindParam(':id_indicador',$parametros['id_indicador']);
                }

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
        }

        return $response;
}


function atualizar_indicador_fusao(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $composicao = $parametros['composicao'];

        $response = new WP_REST_Response( true );

        $comando_string = "delete from sistema.indicador_composicao where
id_indicador_pai = :id_indicador";
        $comando = $pdo->prepare($comando_string);

        if(array_key_exists('id_indicador',$parametros))
                if($parametros['id_indicador'] != '')
                        $comando-
>bindParam(':id_indicador',$parametros['id_indicador']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
        }
        else
        {
                foreach($composicao as $chave => $valor){
```

```php
                        if($valor['id_indicador_filho'] != null){

                                $comando_string = "insert into
sistema.indicador_composicao (id_indicador_pai, id_indicador_filho, dimensao)


                                                        values
(:id_indicador_pai,:id_indicador_filho,:dimensao)";
                                $comando = $pdo->prepare($comando_string);

                                $comando-
>bindParam(':id_indicador_pai',$parametros['id_indicador']);
                                $comando-
>bindParam(':id_indicador_filho',$valor['id_indicador_filho']);
                                $comando->bindParam(':dimensao',$valor['dimensao']);

                                if(!$comando->execute()){
                                        $erro = $comando->errorInfo();
                                        $response = new  WP_REST_Response($erro[2],
500);
                                }
                        }
                }
        }

        $comando_string = "select sistema.calcular_indicador(:id_indicador)";
        $comando = $pdo->prepare($comando_string);

  if(array_key_exists('id_indicador',$parametros))
                if($parametros['id_indicador'] != ''){
                        $comando-
>bindParam(':id_indicador',$parametros['id_indicador']);
                }

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
        }

        return $response;
}


 function atualizar_variavel_filtro(WP_REST_Request $request){
        $parametros = $request->get_params();
```

```php
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $variavelFiltro = $parametros['filtro'];

        $response = new WP_REST_Response( true );

        $comando_string = "delete from sistema.variavel_filtro where id_variavel
= :id_variavel";
        $comando = $pdo->prepare($comando_string);

        if(array_key_exists('id_variavel',$parametros))
                if($parametros['id_variavel'] != '')
                        $comando-
>bindParam(':id_variavel',$parametros['id_variavel']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
        }
        else
        {
                foreach($variavelFiltro as $chave => $valor){

                        if($valor['coluna'] != null){

                                $comando_string = "insert into
sistema.variavel_filtro (id_variavel, coluna, valor, operador_comparador, ordem,
aninhamento, operador_logico, excluir_regiao_raiz)


                                values
(:id_variavel,:coluna,:valor,:operador_comparador,:ordem,:aninhamento,:operador_l
ogico,:excluir_regiao_raiz)";
                                $comando = $pdo->prepare($comando_string);
                                $ordem = $chave + 1;
                                $comando-
>bindParam(':id_variavel',$parametros['id_variavel']);
                                $comando->bindParam(':coluna',$valor['coluna']);
                                $comando->bindParam(':valor',$valor['valor']);
```

```php
                        $comando-
>bindParam(':operador_comparador',$valor['operador_comparador']);
                        $comando->bindParam(':ordem',$ordem);
                        $comando-
>bindParam(':aninhamento',$valor['aninhamento']);
                        $comando-
>bindParam(':operador_logico',$valor['operador_logico']);

                        $valor['excluir_regiao_raiz'] =
($valor['excluir_regiao_raiz'])?'t':'f';
                        $comando-
>bindParam(':excluir_regiao_raiz',$valor['excluir_regiao_raiz']);

                        if(!$comando->execute()){
                                $erro = $comando->errorInfo();
                                $response = new  WP_REST_Response($erro[2],
500);
                        }
                }
            }
        }

        return $response;
}

function atualizar_fonte_dados_coluna(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $colunas = $parametros['colunas'];

        $response = new WP_REST_Response( true );

        $comando_string = "delete from sistema.coluna where id_fonte_dados =
:id_fonte_dados";
        $comando = $pdo->prepare($comando_string);

        if(array_key_exists('id_fonte_dados',$parametros))
                if($parametros['id_fonte_dados'] != '')
```

```php
                    $comando-
>bindParam(':id_fonte_dados',$parametros['id_fonte_dados']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
        }
        else
        {
                foreach($colunas as $chave => $valor){

                        if($valor['tipo'] != null){

                                $comando_string = "insert into sistema.coluna
(id_fonte_dados, tipo, nome, formato, id_territorio, tipo_territorio)


values (:id_fonte_dados,:tipo,:nome,:formato,:id_territorio,:tipo_territorio)";
                                $comando = $pdo->prepare($comando_string);
                                $ordem = $chave + 1;
                                $comando-
>bindParam(':id_fonte_dados',$parametros['id_fonte_dados']);
                                $comando->bindParam(':tipo',$valor['tipo']);
                                $comando->bindParam(':nome',$valor['nome']);
                                $comando->bindParam(':formato',$valor['formato']);
                                $comando-
>bindParam(':id_territorio',$valor['id_territorio']);
                                $comando-
>bindParam(':tipo_territorio',$valor['tipo_territorio']);

                                if(!$comando->execute()){
                                        $erro = $comando->errorInfo();
                                        $response = new  WP_REST_Response($erro[2],
500);
                                }
                        }
                }
        }

        return $response;
}


function atualizar_variavel(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
```

```php
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $variavel = $parametros['variavel'];

        $comando_string = "update sistema.variavel set
        nome = :nome,
        coluna_valor = :coluna_valor,
        operacao_agregacao = :operacao_agregacao,
        coluna_data = :coluna_data,
        coluna_dimensao = :coluna_dimensao,
        id_fonte_dados = :id_fonte_dados,
        distribuicao = :distribuicao,
        periodicidade = :periodicidade,
        desabilitar_dim_raiz = :desabilitar_dim_raiz,
        acumulativa = :acumulativa,
        crescimento = :crescimento,
        tipo_cruzamento = :tipo_cruzamento,
        tipo_valor = :tipo_valor,
        tipo_territorio = :tipo_territorio
        where id_variavel = :id_variavel";
        $comando = $pdo->prepare($comando_string);

    if(array_key_exists('id_variavel',$variavel))
                if($variavel['id_variavel'] != ''){
                                $variavel['desabilitar_dim_raiz'] =
($variavel['desabilitar_dim_raiz'])?'t':'f';
                                $variavel['distribuicao'] =
($variavel['distribuicao'])?'t':'f';
                                $variavel['acumulativa'] =
($variavel['acumulativa'])?'t':'f';
                                $variavel['crescimento'] =
($variavel['crescimento'])?'t':'f';
                                if(is_null($variavel['tipo_cruzamento']))
                                        $variavel['tipo_cruzamento'] = 'inner';

                                $comando->bindParam(':nome',$variavel['nome']);
                                $comando-
>bindParam(':coluna_valor',$variavel['coluna_valor']);
                                $comando-
>bindParam(':operacao_agregacao',$variavel['operacao_agregacao']);
```

```php
                              $comando-
>bindParam(':coluna_data',$variavel['coluna_data']);
                              $comando-
>bindParam(':coluna_dimensao',$variavel['coluna_dimensao']);
                              $comando-
>bindParam(':id_fonte_dados',$variavel['id_fonte_dados']);
                              $comando-
>bindParam(':distribuicao',$variavel['distribuicao']);
                              $comando-
>bindParam(':periodicidade',$variavel['periodicidade']);
                              $comando-
>bindParam(':desabilitar_dim_raiz',$variavel['desabilitar_dim_raiz']);
                              $comando-
>bindParam(':acumulativa',$variavel['acumulativa']);
                              $comando-
>bindParam(':crescimento',$variavel['crescimento']);
                              $comando-
>bindParam(':tipo_cruzamento',$variavel['tipo_cruzamento']);
                              $comando-
>bindParam(':tipo_valor',$variavel['tipo_valor']);
                              $comando-
>bindParam(':tipo_territorio',$variavel['tipo_territorio']);
                              $comando-
>bindParam(':id_variavel',$variavel['id_variavel']);
                    }

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2],500);
        }
        else
        {
                $response = new WP_REST_Response( true );
        }

        return $response;
}
function atualizar_view_dado_aberto($pdo, $id_fonte_dados){

        $comando_string = 'select
sistema.criar_view_dado_aberto(:id_fonte_dados)';

        $comando = $pdo->prepare($comando_string);

        $comando->bindParam(':id_fonte_dados',$id_fonte_dados);
```

```php
        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
        }
        else
        {
                $response = new WP_REST_Response( true );
        }
        return $response;
}
function atualizar_fonte_dados(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $fonte_dados = $parametros['fonte_dados'];

        atualizar_view_dado_aberto($pdo, $fonte_dados['id_fonte_dados']);

        $comando_string = "update sistema.fonte_dados set
        nome = :nome,
        delimitador = :delimitador,
        diretorio = :diretorio,
        data_atualizacao = :data_atualizacao,
        formato_arquivo = :formato_arquivo,
        nome_tabela = :nome_tabela,
        linha_cabecalho = :linha_cabecalho,
        data_inicial = :data_inicial,
        data_final = :data_final,
        tipo = :tipo,
        periodicidade = :periodicidade,
        origem = :origem,
        link = :link,
        id_usuario_mantenedor = :id_usuario_mantenedor,
        script_sql = :script_sql,
        ativa = :ativa
        where id_fonte_dados = :id_fonte_dados";
        $comando = $pdo->prepare($comando_string);

    if(array_key_exists('id_fonte_dados',$fonte_dados))
```

```php
                if($fonte_dados['id_fonte_dados'] != ''){

                        $comando-
>bindParam(':id_fonte_dados',$fonte_dados['id_fonte_dados']);
                        $comando->bindParam(':nome',$fonte_dados['nome']);
                        $comando-
>bindParam(':delimitador',$fonte_dados['delimitador']);
                        $comando-
>bindParam(':diretorio',$fonte_dados['diretorio']);
                        $comando-
>bindParam(':data_atualizacao',$fonte_dados['data_atualizacao']);
                        $comando-
>bindParam(':formato_arquivo',$fonte_dados['formato_arquivo']);
                        $comando-
>bindParam(':nome_tabela',$fonte_dados['nome_tabela']);
                        $comando-
>bindParam(':linha_cabecalho',$fonte_dados['linha_cabecalho']);
                        $comando-
>bindParam(':data_inicial',$fonte_dados['data_inicial']);
                        $comando-
>bindParam(':data_final',$fonte_dados['data_final']);
                        $comando->bindParam(':tipo',$fonte_dados['tipo']);
                        $comando-
>bindParam(':periodicidade',$fonte_dados['periodicidade']);
                        $comando-
>bindParam(':origem',$fonte_dados['origem']);
                        $comando->bindParam(':link',$fonte_dados['link']);
                        $comando-
>bindParam(':id_usuario_mantenedor',$fonte_dados['id_usuario_mantenedor']);
                        $fonte_dados['ativa'] =
($fonte_dados['ativa'])?'t':'f';
                        $comando->bindParam(':ativa',$fonte_dados['ativa']);
                        $comando-
>bindParam(':script_sql',$fonte_dados['script_sql']);
                }

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
        }
        else
        {

                $colunas_exclusao = $fonte_dados['colunas_exclusao'];

                $response = new WP_REST_Response( true );
```

```php
                $comando_string = "delete from sistema.fonte_dados_exclusao_coluna
where id_fonte_dados = :id_fonte_dados";
                $comando = $pdo->prepare($comando_string);

                $comando-
>bindParam(':id_fonte_dados',$fonte_dados['id_fonte_dados']);

                if(!$comando->execute()){
                        $erro = $comando->errorInfo();
                        $response = new  WP_REST_Response($erro[2], 500);
                }
                else
                {

                        foreach($colunas_exclusao as $chave => $valor){

                                if($valor != null){

                                        $comando_string = "insert into
sistema.fonte_dados_exclusao_coluna (id_fonte_dados, coluna)


                values (:id_fonte_dados,:coluna)";
                                        $comando = $pdo->prepare($comando_string);

                                        $comando-
>bindParam(':id_fonte_dados',$fonte_dados['id_fonte_dados']);
                                        $comando->bindParam(':coluna',$valor);

                                        if(!$comando->execute()){
                                                $erro = $comando->errorInfo();
                                                $response = new
WP_REST_Response($erro[2], 500);
                                        }
                                }
                        }
                }


                $response = new WP_REST_Response( true );
        }

        return $response;
}
function carregar_fonte_dados(WP_REST_Request $request){
```

```php
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }



        $comando_string =
        "select *
        from sistema.fonte_dados
        where id_fonte_dados = :id_fonte_dados";

         $comando = $pdo->prepare($comando_string);
        if(array_key_exists('id_fonte_dados',$parametros))
                $comando-
>bindParam(':id_fonte_dados',$parametros['id_fonte_dados']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
        }

        $diretorio = wp_upload_dir()['basedir'].'/'.$dados[0]['nome_tabela'];
        $result = wp_mkdir_p($diretorio);
        $nome_arquivo = $_FILES['arquivo']['name'];
        move_uploaded_file($_FILES['arquivo']['tmp_name'],
$diretorio.'/'.$nome_arquivo);

        $id_fonte_dados = $parametros['id_fonte_dados'];

        $output = 0;
        $response = 0;

        //putenv('KETTLE_HOME=/var/www/pentaho/Pentaho/Configuracao');
        //$varia_amb = getenv('KETTLE_HOME');

        $linha_comando = '/var/www/pentaho/Pentaho/data-integration/kitchen.sh -
rep=MonitoramentoPDE -job=Carga -dir=/ -param:ID_FONTE_DADOS='.$id_fonte_dados.'
-param:"FORMATO_ARQUIVO='.$nome_arquivo.'"  -
```

```php
param:"DIRETORIO_FONTE='.$diretorio.'" -param:TIPO_ARQUIVO=2';

        exec($linha_comando,$output,$response);

        atualizar_view_dado_aberto($pdo, $parametros['id_fonte_dados']);

        //var_dump(array_reverse($output));
        //var_dump($response);

        return $response;
}

function inserir_indicador(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $indicador = $parametros['indicador'];

        $comando_string =
        "insert into sistema.indicador( nome, periodicidade, tipo_valor,
nota_tecnica, nota_tecnica_resumida, apresentacao, simbolo_valor, ativo,
homologacao, fonte, id_territorio_padrao, observacao)


        values(:nome,:periodicidade,:tipo_valor,:nota_tecnica,:nota_tecnica_resum
ida,:apresentacao,:simbolo_valor,:ativo,:homologacao,:fonte,:id_territorio_padrao
,:observacao)
        returning id_indicador;";

        $comando = $pdo->prepare($comando_string);

        $comando->bindParam(':nome',$indicador['nome']);
        $comando->bindParam(':periodicidade',$indicador['periodicidade']);
        $comando->bindParam(':tipo_valor',$indicador['tipo_valor']);
        $comando->bindParam(':nota_tecnica',$indicador['nota_tecnica']);
        $comando-
>bindParam(':nota_tecnica_resumida',$indicador['nota_tecnica_resumida']);
        $comando->bindParam(':apresentacao',$indicador['apresentacao']);
        $comando->bindParam(':simbolo_valor',$indicador['simbolo_valor']);
```

```php
        $indicador['ativo'] = ($indicador['ativo'])?'t':'f';
        $indicador['homologacao'] = ($indicador['homologacao'])?'t':'f';
        $comando->bindParam(':ativo',$indicador['ativo']);
        $comando->bindParam(':homologacao',$indicador['homologacao']);
        $comando->bindParam(':fonte',$indicador['fonte']);
        $comando-
>bindParam(':id_territorio_padrao',$indicador['id_territorio_padrao']);
        $comando->bindParam(':observacao',$indicador['observacao']);

    if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
                return $response;
        }
        else
        {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);

                if(!is_null($indicador['id_instrumento']) ){
                        $comando_string =
                        "insert into sistema.indicador_x_grupo( id_grupo_indicador,
id_indicador, ordem)



        values(:id_grupo_indicador,:id_indicador,:ordem)";

                        $comando = $pdo->prepare($comando_string);

                        $comando-
>bindParam(':id_grupo_indicador',$indicador['id_instrumento']);
                        $comando-
>bindParam(':id_indicador',$dados[0]['id_indicador']);
                        $comando-
>bindParam(':ordem',$indicador['ordem_instrumento']);

                        if(!$comando->execute()){
                                $erro = $comando->errorInfo();
                                $response = new  WP_REST_Response($erro[2], 500);
                                return $response;
                        }
                }

                if(!is_null($indicador['estrategias'][0]['id_grupo_indicador']) ){
                        $comando_string =
                        "insert into sistema.indicador_x_grupo( id_grupo_indicador,
id_indicador, ordem)
```

```php
                values(:id_grupo_indicador,:id_indicador,:ordem)";

                        $comando = $pdo->prepare($comando_string);

                        $comando-
>bindParam(':id_grupo_indicador',$indicador['estrategias'][0]['id_grupo_indicador
']);
                        $comando-
>bindParam(':id_indicador',$dados[0]['id_indicador']);
                        $comando-
>bindParam(':ordem',$indicador['estrategias'][0]['ordem']);

                        if(!$comando->execute()){
                                $erro = $comando->errorInfo();
                                $response = new  WP_REST_Response($erro[2], 500);
                                return $response;
                        }
                }

                if(!is_null($indicador['estrategias'][1]['id_grupo_indicador']) ){
                        $comando_string =
                        "insert into sistema.indicador_x_grupo( id_grupo_indicador,
id_indicador, ordem)


        values(:id_grupo_indicador,:id_indicador,:ordem)";

                        $comando = $pdo->prepare($comando_string);

                        $comando-
>bindParam(':id_grupo_indicador',$indicador['estrategias'][1]['id_grupo_indicador
']);
                        $comando-
>bindParam(':id_indicador',$dados[0]['id_indicador']);
                        $comando-
>bindParam(':ordem',$indicador['estrategias'][1]['ordem']);

                        if(!$comando->execute()){
                                $erro = $comando->errorInfo();
                                $response = new  WP_REST_Response($erro[2], 500);
                                return $response;
                        }
                }
        }
```

```php
        $response = new WP_REST_Response( $dados[0] );
        return $response;
}


function inserir_variavel(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $variavel = $parametros['variavel'];

        $comando_string =
        "insert into sistema.variavel ( nome, coluna_valor, operacao_agregacao,
coluna_data, coluna_dimensao, id_fonte_dados, distribuicao, periodicidade,
desabilitar_dim_raiz, acumulativa, crescimento, tipo_cruzamento, tipo_valor,
tipo_territorio)


        values(:nome,:coluna_valor,:operacao_agregacao,:coluna_data,:coluna_dimen
sao,:id_fonte_dados,:distribuicao,:periodicidade,:desabilitar_dim_raiz,:acumulati
va,:crescimento,:tipo_cruzamento,:tipo_valor,:tipo_territorio)
                returning id_variavel";

        $comando = $pdo->prepare($comando_string);

        $variavel['desabilitar_dim_raiz'] =
($variavel['desabilitar_dim_raiz'])?'t':'f';
        $variavel['distribuicao'] = ($variavel['distribuicao'])?'t':'f';
        $variavel['acumulativa'] = ($variavel['acumulativa'])?'t':'f';
        $variavel['crescimento'] = ($variavel['crescimento'])?'t':'f';

        if(is_null($variavel['tipo_cruzamento']))
                $variavel['tipo_cruzamento'] = 'inner';

        $comando->bindParam(':nome',$variavel['nome']);
        $comando->bindParam(':coluna_valor',$variavel['coluna_valor']);
        $comando-
>bindParam(':operacao_agregacao',$variavel['operacao_agregacao']);
        $comando->bindParam(':coluna_data',$variavel['coluna_data']);
```

```php
        $comando->bindParam(':coluna_dimensao',$variavel['coluna_dimensao']);
        $comando->bindParam(':id_fonte_dados',$variavel['id_fonte_dados']);
        $comando->bindParam(':distribuicao',$variavel['distribuicao']);
        $comando->bindParam(':periodicidade',$variavel['periodicidade']);
        $comando-
>bindParam(':desabilitar_dim_raiz',$variavel['desabilitar_dim_raiz']);
        $comando->bindParam(':acumulativa',$variavel['acumulativa']);
        $comando->bindParam(':crescimento',$variavel['crescimento']);
        $comando->bindParam(':tipo_cruzamento',$variavel['tipo_cruzamento']);
        $comando->bindParam(':tipo_territorio',$variavel['tipo_territorio']);
        $comando->bindParam(':tipo_valor',$variavel['tipo_valor']);

    if(!$comando->execute()){
            $erro = $comando->errorInfo();
            $response = new  WP_REST_Response($erro[2], 500);
        }
        else
        {
            $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
            $response = new WP_REST_Response( $dados[0] );
        }
        return $response;
}
function inserir_fonte_dados(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
            $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
            die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $fonte_dados = $parametros['fonte_dados'];

        $comando_string =
        "insert into sistema.fonte_dados ( nome, delimitador, diretorio,
data_atualizacao, formato_arquivo, nome_tabela, linha_cabecalho, data_inicial,
data_final, tipo, periodicidade, origem, link ,ativa)


values(:nome,:delimitador,:diretorio,:data_atualizacao,:formato_arquivo,:nome_tab
ela,:linha_cabecalho,:data_inicial,:data_final,:tipo,:periodicidade,:origem,:link
,:ativa)
        returning id_fonte_dados";
```

```php
        $comando = $pdo->prepare($comando_string);

        $comando->bindParam(':nome',$fonte_dados['nome']);
        $comando->bindParam(':delimitador',$fonte_dados['delimitador']);
        $comando->bindParam(':diretorio',$fonte_dados['diretorio']);
        $comando->bindParam(':data_atualizacao',$fonte_dados['data_atualizacao']);
        $comando->bindParam(':formato_arquivo',$fonte_dados['formato_arquivo']);
        $comando->bindParam(':nome_tabela',$fonte_dados['nome_tabela']);
        $comando->bindParam(':linha_cabecalho',$fonte_dados['linha_cabecalho']);
        $comando->bindParam(':data_inicial',$fonte_dados['data_inicial']);
        $comando->bindParam(':data_final',$fonte_dados['data_final']);
        $comando->bindParam(':tipo',$fonte_dados['tipo']);
        $fonte_dados['ativa'] = ($fonte_dados['ativa'])?'t':'f';
        $comando->bindParam(':ativa',$fonte_dados['ativa']);
        $comando->bindParam(':periodicidade',$fonte_dados['periodicidade']);
        $comando->bindParam(':origem',$fonte_dados['origem']);
        $comando->bindParam(':link',$fonte_dados['link']);

    if(!$comando->execute()){
            $erro = $comando->errorInfo();
            $response = new  WP_REST_Response($erro[2], 500);
        }
        else
        {

            $dados = $comando->fetchAll(PDO::FETCH_ASSOC);

            $colunas_exclusao = $fonte_dados['colunas_exclusao'];

            $response = new WP_REST_Response( true );

            $comando_string = "delete from sistema.fonte_dados_exclusao_coluna
where id_fonte_dados = :id_fonte_dados";
            $comando = $pdo->prepare($comando_string);

            $comando->bindParam(':id_fonte_dados',$fonte_dados['id_fonte_dados']);

            if(!$comando->execute()){
                $erro = $comando->errorInfo();
                $response = new  WP_REST_Response($erro[2], 500);
            }
            else
            {
```

```php
                foreach($colunas_exclusao as $chave => $valor){

                    if($valor != null){

                        $comando_string = "insert into
sistema.fonte_dados_exclusao_coluna (id_fonte_dados, coluna)



            values (:id_fonte_dados,:coluna)";
                        $comando = $pdo->prepare($comando_string);

                        $comando-
>bindParam(':id_fonte_dados',$fonte_dados['id_fonte_dados']);
                        $comando->bindParam(':coluna',$valor);

                        if(!$comando->execute()){
                            $erro = $comando->errorInfo();
                            $response = new
WP_REST_Response($erro[2], 500);
                        }
                    }
                }
            }

            $response = new WP_REST_Response( $dados[0] );
    }
    return $response;
}

function ficha_tecnica_instrumento(WP_REST_Request $request){
    $parametros = $request->get_params();
    global $DbConfig;
    try {
        $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
    } catch (PDOException $e) {
        die("Conexão ao banco de dados falhou: " . $e->getMessage());
    }

    $comando_string = "select * from fonte_dados.ficha_tecnica_instrumento
where id_instrumento = :instrumento";
 $comando = $pdo->prepare($comando_string);

  if(array_key_exists('instrumento',$parametros))
            if($parametros['instrumento'] != '')
```

```php
				$comando->bindParam(':instrumento',$parametros['instrumento']);


		if(!$comando->execute()){
				$erro = $comando->errorInfo();
				return $erro[2];
		} else {
				$dados = $comando->fetchAll(PDO::FETCH_ASSOC);
		}

		$response = new WP_REST_Response( $dados[0] );
		return $response;
}

function indicador_memoria(WP_REST_Request $request){
		$parametros = $request->get_params();
		global $DbConfig;
		try {
				$pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
		} catch (PDOException $e) {
				die("Conexão ao banco de dados falhou: " . $e->getMessage());
		}

		$comando_where = '';

		if(array_key_exists('data_inicio',$parametros))
				if($parametros['data_inicio']!=null)
						$comando_where = $comando_where.' and calc.data >=
:data_inicio';

		if(array_key_exists('data',$parametros))
				if($parametros['data']!=null)
						$comando_where = $comando_where.' and calc.data = :data';

		if(array_key_exists('data_fim',$parametros))
				if($parametros['data_fim']!=null)
						$comando_where = $comando_where.' and calc.data <=
:data_fim';

		if(array_key_exists('id_regiao',$parametros))
				if($parametros['id_regiao']!=null)
						$comando_where = $comando_where.' and calc.id_regiao =
:id_regiao';
```

```php
        if(array_key_exists('id_territorio',$parametros))
                if($parametros['id_territorio']!=null)
                        $comando_where = $comando_where.' and calc.id_territorio =
:id_territorio';

        $comando_string =
        '
select indic.nome as "Nome"
        , indic.tipo_valor as "Unidade de medida"
        , indic.simbolo_valor as "Símbolo de medida"
        , calc.dimensao as "Categoria"
        , terr.nome as "Unidade Territorial de Análise"
        , reg.nome as "Região"
        , calc.data as "Data"
        , calc.valor as "Valor"
        , var_calc1.valor as "Variavel1"
        , var_calc2.valor as "Variavel2"
        , var_calc3.valor as "Variavel3"
        , var_calc4.valor as "Variavel4"
        , var_calc5.valor as "Variavel5"
        , var_calc6.valor as "Variavel6"
        , var_calc7.valor as "Variavel7"
        , var_calc8.valor as "Variavel8"

        from sistema.indicador_calculo calc
inner join sistema.indicador indic on indic.id_indicador = calc.id_indicador
inner join fonte_dados.territorio terr on terr.id_territorio = calc.id_territorio
inner join fonte_dados.regiao reg on reg.id_territorio = terr.id_territorio
        and reg.id_regiao = calc.id_regiao
left join sistema.indicador_x_variavel indic_var1
        on indic_var1.id_indicador = indic.id_indicador
        and indic_var1.ordem = 1
left join sistema.indicador_x_variavel indic_var2
        on indic_var2.id_indicador = indic.id_indicador
        and indic_var2.ordem = 2
left join sistema.indicador_x_variavel indic_var3
        on indic_var3.id_indicador = indic.id_indicador
        and indic_var3.ordem = 3
left join sistema.indicador_x_variavel indic_var4
        on indic_var4.id_indicador = indic.id_indicador
        and indic_var4.ordem = 4
left join sistema.indicador_x_variavel indic_var5
        on indic_var5.id_indicador = indic.id_indicador
        and indic_var5.ordem = 5
left join sistema.indicador_x_variavel indic_var6
```

```
        on indic_var6.id_indicador = indic.id_indicador
        and indic_var6.ordem = 6
left join sistema.indicador_x_variavel indic_var7
        on indic_var7.id_indicador = indic.id_indicador
        and indic_var7.ordem = 7
left join sistema.indicador_x_variavel indic_var8
        on indic_var8.id_indicador = indic.id_indicador
        and indic_var8.ordem = 8
left join sistema.variavel var1
        on var1.id_variavel = indic_var1.id_variavel
left join sistema.variavel var2
        on var2.id_variavel = indic_var2.id_variavel
left join sistema.variavel var3
        on var3.id_variavel = indic_var3.id_variavel
left join sistema.variavel var4
        on var4.id_variavel = indic_var4.id_variavel
left join sistema.variavel var5
        on var5.id_variavel = indic_var5.id_variavel
left join sistema.variavel var6
        on var6.id_variavel = indic_var6.id_variavel
left join sistema.variavel var7
        on var7.id_variavel = indic_var7.id_variavel
left join sistema.variavel var8
        on var8.id_variavel = indic_var8.id_variavel
left join sistema.variavel_calculo var_calc1
        on          indic_var1.id_variavel = var_calc1.id_variavel
            and (var_calc1.data = calc.data          or var_calc1.data is
null)
            and (var_calc1.dimensao = calc.dimensao or var_calc1.dimensao is
null)
            and ((var_calc1.id_territorio = calc.id_territorio
                    and var_calc1.id_regiao = calc.id_regiao
                    )
                or var1.distribuicao = true
                )
left join sistema.variavel_calculo var_calc2
        on          indic_var2.id_variavel = var_calc2.id_variavel
            and (var_calc2.data = calc.data          or var_calc2.data is
null)
            and (var_calc2.dimensao = calc.dimensao or var_calc2.dimensao is
null)
            and ((var_calc2.id_territorio = calc.id_territorio
                    and var_calc2.id_regiao = calc.id_regiao
                    )
                or var2.distribuicao = true
                )
```

```
left join sistema.variavel_calculo var_calc3
        on              indic_var3.id_variavel = var_calc3.id_variavel
            and (var_calc3.data = calc.data              or var_calc3.data is
null)
            and (var_calc3.dimensao = calc.dimensao or var_calc3.dimensao is
null)
            and ((var_calc3.id_territorio = calc.id_territorio
                        and var_calc3.id_regiao = calc.id_regiao
                            )
                    or var3.distribuicao = true
                    )
left join sistema.variavel_calculo var_calc4
        on              indic_var4.id_variavel = var_calc4.id_variavel
            and (var_calc4.data = calc.data              or var_calc4.data is
null)
            and (var_calc4.dimensao = calc.dimensao or var_calc4.dimensao is
null)
            and ((var_calc4.id_territorio = calc.id_territorio
                        and var_calc4.id_regiao = calc.id_regiao
                            )
                    or var4.distribuicao = true
                    )
left join sistema.variavel_calculo var_calc5
        on              indic_var5.id_variavel = var_calc5.id_variavel
            and (var_calc5.data = calc.data              or var_calc5.data is
null)
            and (var_calc5.dimensao = calc.dimensao or var_calc5.dimensao is
null)
            and ((var_calc5.id_territorio = calc.id_territorio
                        and var_calc5.id_regiao = calc.id_regiao
                            )
                    or var5.distribuicao = true
                    )
left join sistema.variavel_calculo var_calc6
        on              indic_var6.id_variavel = var_calc6.id_variavel
            and (var_calc6.data = calc.data              or var_calc6.data is
null)
            and (var_calc6.dimensao = calc.dimensao or var_calc6.dimensao is
null)
            and ((var_calc6.id_territorio = calc.id_territorio
                        and var_calc6.id_regiao = calc.id_regiao
                            )
                    or var6.distribuicao = true
                    )
left join sistema.variavel_calculo var_calc7
        on              indic_var7.id_variavel = var_calc7.id_variavel
```

```
            and (var_calc7.data = calc.data           or var_calc7.data is
null)
            and (var_calc7.dimensao = calc.dimensao or var_calc7.dimensao is
null)
            and ((var_calc7.id_territorio = calc.id_territorio
                        and var_calc7.id_regiao = calc.id_regiao
                        )
                    or var7.distribuicao = true
                )
left join sistema.variavel_calculo var_calc8
        on           indic_var8.id_variavel = var_calc8.id_variavel
            and (var_calc8.data = calc.data           or var_calc8.data is
null)
            and (var_calc8.dimensao = calc.dimensao or var_calc8.dimensao is
null)
            and ((var_calc8.id_territorio = calc.id_territorio
                        and var_calc8.id_regiao = calc.id_regiao
                        )
                    or var8.distribuicao = true
                )
where indic.id_indicador = :indicador and calc.valor is not null '
.$comando_where.'
order by indic.nome
        ,terr.id_territorio
        ,reg.nome
        ,calc.dimensao
        ,calc.data';

            $comando = $pdo->prepare($comando_string);

        if(array_key_exists('indicador',$parametros))
            if($parametros['indicador']!=null)
                $comando->bindParam(':indicador',
$parametros['indicador']);
        if(array_key_exists('data_inicio',$parametros))
            if($parametros['data_inicio']!=null)
                $comando->bindParam(':data_inicio',
$parametros['data_inicio']);

        if(array_key_exists('data_fim',$parametros))
            if($parametros['data_fim']!=null)
                $comando->bindParam(':data_fim', $parametros['data_fim']);

        if(array_key_exists('data',$parametros))
            if($parametros['data']!=null)
                $comando->bindParam(':data', $parametros['data']);
```

```php
        if(array_key_exists('id_regiao',$parametros))
                if($parametros['id_regiao']!=null)
                        $comando->bindParam(':id_regiao',
$parametros['id_regiao']);

        if(array_key_exists('id_territorio',$parametros))
                if($parametros['id_territorio']!=null)
                        $comando->bindParam(':id_territorio',
$parametros['id_territorio']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados['dados'] = $comando->fetchAll(PDO::FETCH_ASSOC);
        }

        $comando_string = 'select count(id_variavel) as qtd_variavel from
sistema.indicador_x_variavel where id_indicador = :indicador';

        $comando = $pdo->prepare($comando_string);

        if(array_key_exists('indicador',$parametros))
                if($parametros['indicador']!=null)
                        $comando->bindParam(':indicador',
$parametros['indicador']);

         if(!$comando->execute()){
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados['qtd_variavel'] = $comando-
>fetchAll(PDO::FETCH_ASSOC)[0]['qtd_variavel'];
        }

        $response = new WP_REST_Response( $dados );
        return $response;
}


function dado_aberto(WP_REST_Request $request){
         global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
```

```php
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $parametros = $request->get_params();

        $comando_string =
        "select * from sistema.fonte_dados where id_fonte_dados =
:fonte_dados;";

                $comando = $pdo->prepare($comando_string);

        if(array_key_exists('fonte_dados',$parametros))
        {
                $comando->bindParam(':fonte_dados',$parametros['fonte_dados']);
        }

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
        }

                $comando_string =
        "select * from fonte_dados.vw_".$dados[0]['nome_tabela'].";";

                $comando = $pdo->prepare($comando_string);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
        }

        $response = new WP_REST_Response( $dados );
        return $response;

 }

function fontes_dados(WP_REST_Request $request){
        $parametros = $request->get_params();

        wp_verify_nonce( $_SERVER['X-WP-Nonce'], "wp_rest" );
```

```php
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_where = ' where 1 = 1';

        if(array_key_exists('fonte_dados',$parametros))
        {
                $comando_where = $comando_where." and fonte.id_fonte_dados =
:fonte_dados ";
        }else{
                $comando_where = $comando_where."";
        }

        if(array_key_exists('ativa',$parametros))
        {
                $comando_where = $comando_where." and fonte.ativa = true ";
        }else{
                $comando_where = $comando_where."";
        }

        if(array_key_exists('link',$parametros))
        {
                $comando_where = $comando_where." and link is not null ";
        }else{
                $comando_where = $comando_where."";
        }

        $role = '';
        $usuario = wp_get_current_user();
        foreach($usuario->roles as $role) {
                if(strtolower($role) == 'mantenedor' && $role != 'administrator')
                        $role = 'mantenedor';
                else
                        if(strtolower($role) == 'administrator')
                                $role = 'administrator';
        }

        if($role == 'mantenedor')
        {
```

```php
            $comando_where = $comando_where." and id_usuario_mantenedor =
:id_usuario";
        }else{
            $comando_where = $comando_where."";
        }


        //colocar parametro do link
        $comando_string = "select
fonte.*
,json_agg(col.column_name) as colunas
,json_agg(distinct tipo_territorio) filter (where tipo_territorio is not null) as
tipos_territorio
,json_agg(distinct fonte_exclusao.coluna) filter (where fonte_exclusao.coluna is
not null) as colunas_exclusao
from sistema.fonte_dados fonte
left join information_schema.columns col
        on col.table_name = fonte.nome_tabela
left join sistema.fonte_dados_exclusao_coluna fonte_exclusao
        on fonte_exclusao.id_fonte_dados = fonte.id_fonte_dados
        and col.column_name = fonte_exclusao.coluna
left join sistema.coluna tip_terr
        on tip_terr.id_fonte_dados = fonte.id_fonte_dados
        and tip_terr.nome = col.column_name
        and tip_terr.tipo_territorio is not null
        ".$comando_where."
group by
fonte.id_fonte_dados
,fonte.data_carga
,fonte.nome
,fonte.ativa
,fonte.delimitador
,fonte.diretorio
,fonte.formato_arquivo
,fonte.nome_tabela
,fonte.linha_cabecalho
,fonte.data_inicial
,fonte.data_final
,fonte.tipo
,fonte.periodicidade
,fonte.origem
,fonte.data_atualizacao";


        $comando = $pdo->prepare($comando_string);


        if(array_key_exists('fonte_dados',$parametros))
```

```php
                $comando->bindParam(':fonte_dados',$parametros['fonte_dados']);

        if($role == 'mantenedor')
                $comando->bindParam(':id_usuario',$usuario->ID);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
                foreach($dados as &$linha){
                        $linha['colunas'] = json_decode($linha['colunas']);
                        $linha['colunas_exclusao'] =
json_decode($linha['colunas_exclusao']);
                        $linha['tipos_territorio'] =
json_decode($linha['tipos_territorio']);
                }
        }

        $response = new WP_REST_Response( $dados );
        return $response;
}
function instrumentos(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_string = "
select id_grupo_indicador, nome from sistema.grupo_indicador where tipo =
'instrumento'";
 $comando = $pdo->prepare($comando_string);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
        }

        $response = new WP_REST_Response( $dados );
```

```php
        return $response;
}
function indicador_fusao(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        if(array_key_exists('id_indicador',$parametros))
        {
                $comando_where = $comando_where." where id_indicador_pai =
:id_indicador ";
        }else{
                $comando_where = $comando_where."";
        }

        $comando_string = "
                select
                id_indicador_pai
                ,indic_pai.nome as nome_indicador_pai

        ,json_agg(json_build_object('id_indicador_filho',id_indicador_filho,'nome
_indicador_filho',indic_filho.nome,'dimensao',dimensao)) as composicao
                from sistema.indicador_composicao comp
                        inner join sistema.indicador indic_pai
                                on indic_pai.id_indicador = comp.id_indicador_pai
                        inner join sistema.indicador indic_filho
                                on indic_filho.id_indicador =
comp.id_indicador_filho
                        ".$comando_where."
                group by
                id_indicador_pai
                ,indic_pai.nome";

 $comando = $pdo->prepare($comando_string);

  if(array_key_exists('id_indicador',$parametros))
                $comando->bindParam(':id_indicador',$parametros['id_indicador']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
```

```php
                return $erro[2];
        } else {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
                foreach($dados as &$linha){
                        $linha['composicao'] = json_decode($linha['composicao']);
                }
        }

        $response = new WP_REST_Response( $dados );
        return $response;
}
function fonte_dados_coluna(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $fonte_dados = $parametros['id_fonte_dados'];

        $comando_string = "
        select
        id_coluna
        ,id_fonte_dados
        ,tipo
        ,nome
        ,formato
        ,id_territorio
        ,tipo_territorio
        from sistema.coluna where id_fonte_dados = :id_fonte_dados";
 $comando = $pdo->prepare($comando_string);
  if(array_key_exists('id_fonte_dados',$parametros))
                $comando-
>bindParam(':id_fonte_dados',$parametros['id_fonte_dados']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
        }
```

```php
        $response = new WP_REST_Response( $dados );
        return $response;
}
function variavel_filtro(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $variavel = $parametros['variavel'];

        $comando_string = "
        select
        id_filtro
        ,id_variavel
        ,coluna
        ,valor
        ,operador_comparador
        ,ordem
        ,aninhamento
        ,trim(both from operador_logico) as operador_logico
        ,excluir_regiao_raiz
        from sistema.variavel_filtro where id_variavel = :variavel";
 $comando = $pdo->prepare($comando_string);
  if(array_key_exists('variavel',$parametros))
                $comando->bindParam(':variavel',$parametros['variavel']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
        }

        $response = new WP_REST_Response( $dados );
        return $response;
}
function indicador_composicao(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
```

```php
            $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_string = "
        select ind.* from sistema.indicador_x_variavel ind
        where id_indicador = :indicador";
 $comando = $pdo->prepare($comando_string);
        if(array_key_exists('indicador',$parametros))
                $comando->bindParam(':indicador',$parametros['indicador']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
        }

        $response = new WP_REST_Response( $dados );
        return $response;
}
function territorios(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_string = "
select id_territorio,
                nome,
                hierarquia,
                id_territorio_pai,
                data_referencia,
                data_carga
                from fonte_dados.territorio";
 $comando = $pdo->prepare($comando_string);

        if(!$comando->execute()){
```

```php
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
        }

        $response = new WP_REST_Response( $dados );
        return $response;
}
function grupo_indicador(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        if(array_key_exists('grupo',$parametros))
                if($parametros['grupo'] != '')
                        $comando_where = " and grp.id_grupo_indicador = :grupo";

        if(array_key_exists('tipo',$parametros))
                if($parametros['tipo'] != '')
                        $comando_where = $comando_where." and grp.tipo = :tipo";

        if(array_key_exists('tipo_retorno',$parametros))
                if($parametros['tipo_retorno'] != '')
                        if($parametros['tipo_retorno'] == 'array')
                                $comando_propriedades =
"json_agg(json_build_object('chave',prop.chave,'valor',prop.valor,'ordem',prop.or
dem) order by prop.ordem)";
                        if($parametros['tipo_retorno'] == 'object')
                                $comando_propriedades =
"json_object_agg(coalesce(prop.chave,'null'),prop.valor)";

        $comando_string = "
select grp.id_grupo_indicador, nome, ".$comando_propriedades."   as propriedades
from sistema.grupo_indicador grp
left join sistema.grupo_propriedade prop on grp.id_grupo_indicador =
prop.id_grupo_indicador
where 1=1 ".$comando_where.
" group by grp.id_grupo_indicador,grp.nome
order by grp.id_grupo_indicador";
```

```php
    $comando = $pdo->prepare($comando_string);

        if(array_key_exists('grupo',$parametros))
                if($parametros['grupo'] != '')
                        $comando->bindParam(':grupo',$parametros['grupo']);

    if(array_key_exists('tipo',$parametros))
                if($parametros['tipo'] != '')
                        $comando->bindParam(':tipo',$parametros['tipo']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
        }
        foreach($dados as &$linha){
                        $linha['propriedades'] =
json_decode($linha['propriedades']);
                }

        $response = new WP_REST_Response( count($dados)==1? $dados[0]:$dados  );
        return $response;
}

function acoes_prioritarias(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_string = "select * from fonte_dados.acoes_prioritarias where 1 =
1";

        if(array_key_exists('categoria',$parametros))
                if($parametros['categoria'] != '')
                        $comando_string = $comando_string.' and categoria =
:categoria';

        if(array_key_exists('estrategia',$parametros))
```

```php
            if($parametros['estrategia'] != '')
                    $comando_string = $comando_string.' and
objetivo_relacionado = :estrategia';

        if(array_key_exists('andamento',$parametros))
                if($parametros['andamento'] != '')
                    $comando_string = $comando_string.' and andamento =
:andamento';

        if(array_key_exists('artigo',$parametros))
                if($parametros['artigo'] != '')
                    $comando_string = $comando_string.' and artigo = :artigo';

        if(array_key_exists('tema',$parametros))
                if($parametros['tema'] != '')
                    $comando_string = $comando_string.' and tema = :tema';

        $comando = $pdo->prepare($comando_string);

        if(array_key_exists('andamento',$parametros))
                if($parametros['andamento'] != '')
                    $comando->bindParam(':andamento',$parametros['andamento']);

        if(array_key_exists('estrategia',$parametros))
                if($parametros['estrategia'] != '')
                    $comando-
>bindParam(':estrategia',$parametros['estrategia']);

        if(array_key_exists('categoria',$parametros))
                if($parametros['categoria'] != '')
                    $comando->bindParam(':categoria',$parametros['categoria']);

        if(array_key_exists('artigo',$parametros))
                if($parametros['artigo'] != '')
                    $comando->bindParam(':artigo',$parametros['artigo']);

        if(array_key_exists('tema',$parametros))
                if($parametros['tema'] != '')
                    $comando->bindParam(':tema',$parametros['tema']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
        }
```

```php
        $response = new WP_REST_Response( $dados );
        return $response;
}
function indicador_historico(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_string =
        "select comb.dimensao as name
                ,json_agg(case when lower(indic.tipo_valor) = 'percentual'
                        then calc.valor * 100
                        else calc.valor
                        end order by comb.data asc) as data
        from sistema.indicador_calculo calc
        inner join fonte_dados.regiao reg on reg.id_territorio =
calc.id_territorio and reg.id_regiao = calc.id_regiao and calc.id_territorio =
:territorio and calc.id_regiao = :regiao
        inner join sistema.indicador indic on indic.id_indicador =
calc.id_indicador and indic.id_indicador = :indicador
        right join
                (select distinct data
                                ,dimen as dimensao
                from sistema.indicador_calculo
                cross join
                        (select distinct coalesce(calc.dimensao,reg.nome) as dimen
from sistema.indicador_calculo calc inner join fonte_dados.regiao reg on
reg.id_regiao = calc.id_regiao and calc.id_territorio = reg.id_territorio and
calc.id_territorio = :territorio and calc.id_regiao = :regiao where id_indicador
= :indicador) dim
                where id_indicador = :indicador
                order by dimen
                                ,data
                ) comb on comb.data = calc.data and comb.dimensao =
coalesce(calc.dimensao,reg.nome)
        where comb.data between :dataMinima and :dataMaxima
        group by comb.dimensao";

        $comando = $pdo->prepare($comando_string);
```

```php
        $comando->bindParam(':dataMinima', $parametros['dataMinima']);
        $comando->bindParam(':dataMaxima', $parametros['dataMaxima']);
        $comando->bindParam(':indicador', $parametros['indicador']);
        $comando->bindParam(':territorio', $parametros['territorio']);
        $comando->bindParam(':regiao', $parametros['regiao']);

        $dados = [];
        if (!$comando->execute()) {
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados_calculo = $comando->fetchAll(PDO::FETCH_ASSOC);
                foreach($dados_calculo as &$linha){
                        $linha['data'] = json_decode($linha['data']);
                }
                $dados['series'] = $dados_calculo;
        }

        $response = new WP_REST_Response( $dados );
        return $response;

}
function variavel_historico(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_string =
        "select v.nome, v.distribuicao, v.tipo_valor, calc.*
        from sistema.variavel_calculo calc
        inner join sistema.variavel v
                on v.id_variavel = calc.id_variavel
        inner join sistema.indicador_x_variavel ind_var
                on      ind_var.id_variavel = v.id_variavel
                        and ind_var.id_indicador = :indicador
        inner join sistema.indicador ind on
                ind.id_indicador = ind_var.id_indicador

        where calc.id_territorio = :territorio or (calc.id_regiao is null and
```

```php
                v.distribuicao = true)
                order by ind_var.ordem";

                $comando = $pdo->prepare($comando_string);

                $comando->bindParam(':indicador', $parametros['indicador']);
                $comando->bindParam(':territorio', $parametros['territorio']);

                $dados = [];
                if (!$comando->execute()) {
                        $erro = $comando->errorInfo();
                        return $erro[2];
                } else {
                        $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
                }

                $response = new WP_REST_Response( $dados );
                return $response;

        }


function variavel_cadastro(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_where = ' where 1 = 1';

        if(array_key_exists('variavel',$parametros))
        {
                $comando_where = $comando_where." and var.id_variavel = :variavel
";
        }else{
                $comando_where = $comando_where."";
        }

        $comando_string =
        "select * from sistema.variavel".$comando_where;
        $comando = $pdo->prepare($comando_string);
```

```php
        if(array_key_exists('variavel',$parametros))
                $comando->bindParam(':variavel',$parametros['variavel']);

        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
        }

        $response = new WP_REST_Response( count($dados)==1? $dados[0]:$dados );
        return $response;
}


function indicador_cadastro(WP_REST_Request $request){
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        $comando_where = ' where 1 = 1 ';

        if(array_key_exists('somente_ativos',$parametros))
                $comando_where = $comando_where.' and indic.ativo = true ';

        if(array_key_exists('indicador',$parametros))
        {
                $comando_where = $comando_where." and indic.id_indicador =
:indicador ";
        }else{
                $comando_where = $comando_where."";
        }

        if(array_key_exists('grupo_indicador',$parametros))
        {
                $comando_where = $comando_where." and indic.id_indicador in
(select distinct id_indicador from sistema.indicador_x_grupo where
id_grupo_indicador = :grupo_indicador)";
        }
```

```
$comando_string =
"select indic.id_indicador as id_indicador
            ,indic.nome
            ,indic.ativo
            ,indic.homologacao
            ,indic.periodicidade
            ,indic.tipo_valor
            ,indic.simbolo_valor
            ,indic.nota_tecnica
            ,indic.nota_tecnica_resumida
            ,indic.apresentacao
            ,indic.fonte as origem
            ,indic.id_territorio_padrao
            ,indic.observacao
            ,indic.tipo_valor
            ,indic.fonte
            ,max(case when grupo.tipo = 'instrumento' then grupo.nome
else null end) as instrumento
            ,max(case when grupo.tipo = 'instrumento' then
grupo.id_grupo_indicador else null end) as id_instrumento
            ,max(case when grupo.tipo = 'instrumento' then grupo.ordem
else null end) as ordem_instrumento
            ,fonte_var.formula_calculo ||  case when indic.tipo_valor =
'Percentual' then ' * 100' else '' end as formula_calculo
            ,json_agg(distinct case when grupo.tipo = 'estrategia' then
jsonb_build_object('id_grupo_indicador',grupo.id_grupo_indicador,'nome',grupo.nom
e,'ordem',grupo.ordem) else null end ) FILTER (WHERE grupo.tipo = 'estrategia')
as estrategias
            ,json_agg(distinct case when grupo.tipo = 'estrategia' then
grupo.id_grupo_indicador else null end ) FILTER (WHERE grupo.tipo = 'estrategia')
as id_estrategia
            ,fonte_var.data_atualizacao
            ,json_agg(distinct calc.data order by calc.data desc)
FILTER (WHERE (calc.data >= indic.data_inicio or indic.data_inicio is null) and
(calc.data <= indic.data_fim or indic.data_fim is null)) as datas
            ,json_agg(distinct cast(row_to_json(ter) as jsonb)) as
territorios
    from sistema.indicador indic
        left join sistema.indicador_calculo calc
            on indic.id_indicador = calc.id_indicador
        left join lateral
          (select indic_var.id_indicador
            ,max(fonte.data_atualizacao) as data_atualizacao

            ,string_agg(coalesce(indic_var.aninhamento,'') ||
```

```
coalesce(var.nome,'') || '' || coalesce('\n (' || indic_var.operador || ')
\n','') || '', ' ' order by indic_var.ordem) as formula_calculo
                    from sistema.indicador_x_variavel indic_var
                            left join sistema.variavel var
                                    on var.id_variavel = indic_var.id_variavel
                            left join sistema.fonte_dados fonte
                                    on var.id_fonte_dados = fonte.id_fonte_dados
                    group by indic_var.id_indicador
                    order by indic_var.id_indicador
                    ) fonte_var
                            on fonte_var.id_indicador = indic.id_indicador
                left join
                    (select grp.*,grp_indic.id_indicador,grp_indic.ordem from
sistema.indicador_x_grupo grp_indic
                            inner join sistema.grupo_indicador grp
                            on grp.id_grupo_indicador =
grp_indic.id_grupo_indicador
                    ) grupo
                    on grupo.id_indicador = indic.id_indicador
                left join (select id_territorio as id_territorio,
                                        nome,ordem from fonte_dados.territorio
                                order by ordem) ter
                    on ter.id_territorio = calc.id_territorio".
        $comando_where.
        "       and ter.id_territorio not in (select exc.id_territorio from
sistema.indicador_territorio_exclusao exc where exc.id_indicador =
indic.id_indicador)"
        ." group by indic.id_indicador
                                    ,indic.nome
                                    ,indic.periodicidade
                                    ,indic.tipo_valor
                                    ,indic.simbolo_valor
                                    ,indic.nota_tecnica
                                    ,indic.nota_tecnica_resumida
                                    ,indic.apresentacao
                                    ,indic.fonte
                                    ,fonte_var.data_atualizacao
                                    ,fonte_var.formula_calculo
                    ";


    $comando = $pdo->prepare($comando_string);

    if(array_key_exists('indicador',$parametros))
            $comando->bindParam(':indicador',$parametros['indicador']);
```

```php
        if(array_key_exists('grupo_indicador',$parametros))
                $comando-
>bindParam(':grupo_indicador',$parametros['grupo_indicador']);



        if(!$comando->execute()){
                $erro = $comando->errorInfo();
                return $erro[2];
        } else {
                $dados = $comando->fetchAll(PDO::FETCH_ASSOC);
        }

        foreach($dados as &$linha){
                $linha['datas'] = json_decode($linha['datas']);
                $linha['territorios'] = json_decode($linha['territorios']);
                $linha['estrategias'] = json_decode($linha['estrategias']);
        }

        $response = new WP_REST_Response( count($dados)==1? $dados[0]:$dados );
        return $response;
}

function indicador_dados( WP_REST_Request $request ) {
        // You can get the combined, merged set of parameters:
        $parametros = $request->get_params();
        global $DbConfig;
        try {
                $pdo = new
PDO('pgsql:host='.$DbConfig['host'].';port='.$DbConfig['port'].';user='.$DbConfig
['user'].';dbname='.$DbConfig['dbname'].';password='.$DbConfig['password']);
        } catch (PDOException $e) {
                die("Conexão ao banco de dados falhou: " . $e->getMessage());
        }

        if(array_key_exists('indicador',$parametros) && array_key_exists('data',
$parametros) && array_key_exists('territorio',$parametros))
        {

                //esse select abaixo é somente para debug, na interface uso
somente os dados que puxa pelo cadastro
                $comando = $pdo->prepare("
                        select nome
                                    ,periodicidade
                        from sistema.indicador
                        where id_indicador = :indicador;");
```

```php
$comando->bindParam(':indicador',$parametros['indicador']);

if(!$comando->execute()){
        $erro = $comando->errorInfo();
        return $erro[2];
} else {
        $dados_indicador = $comando->fetchAll(PDO::FETCH_ASSOC);
        $dados = $dados_indicador[0];
}

if($parametros['data'] == "")
        $parametros['data'] = NULL;

$comando = $pdo->prepare("
        select coalesce(dim.dimensao,'Não categorizado') as name,
                json_agg(coalesce(case when
lower(indic.tipo_valor) = 'percentual'
                                                            then
calc.valor * 100
                                                            else
calc.valor
                                                            end,0) order
by rank_reg.rank asc) as data
                from    fonte_dados.regiao reg
                                cross join (select distinct dimensao
                                                            from
sistema.indicador_calculo
                                                            where id_indicador =
:indicador) dim
                                left join sistema.indicador_calculo calc
                                        on reg.id_regiao = calc.id_regiao
                                        and reg.id_territorio =
calc.id_territorio
                                        and coalesce(calc.dimensao,'') =
coalesce(dim.dimensao,'')
                                        and calc.data
".(is_null($parametros['data']))?"is null":"= :data")."
                                        and calc.id_indicador = :indicador
                                left join    (select reg.id_regiao
                                                            ,rank()
OVER (order by sum(coalesce(valor,0)) desc,reg.nome asc) as rank
                                                            from fonte_dados.regiao
reg
                                                            left join
sistema.indicador_calculo calc
```

```php
                                                                                            on
reg.id_regiao = calc.id_regiao
                                                                                            and
reg.id_territorio = calc.id_territorio
                                                                                            and
calc.data ".(is_null($parametros['data'])?"is null":"= :data")."
                                                                                            and
calc.id_indicador = :indicador
                                                                            where reg.id_territorio
= :territorio
                                                                            group by reg.id_regiao

        ,reg.nome) rank_reg
                                                        on rank_reg.id_regiao = reg.id_regiao
                                            left join sistema.indicador indic
                                                    on indic.id_indicador =
calc.id_indicador
                        where reg.id_territorio = :territorio
                        group by dim.dimensao
                        order by name desc;");

                $comando->bindParam(':indicador', $parametros['indicador']);
                if(!is_null($parametros['data']))
                        $comando->bindParam(':data', $parametros['data']);
                $comando->bindParam(':territorio', $parametros['territorio']);

                if (!$comando->execute()) {
                        $erro = $comando->errorInfo();
                        return $erro[2];
                } else {
                        $dados_calculo = $comando->fetchAll(PDO::FETCH_ASSOC);
                        foreach($dados_calculo as &$linha){
                                $linha['data'] = json_decode($linha['data']);
                        }
                        $dados['series'] = $dados_calculo;
                }

                $comando = $pdo->prepare("
                        select reg.nome
                        from fonte_dados.regiao reg
                        left join sistema.indicador_calculo calc
                                on reg.id_regiao = calc.id_regiao
                                and reg.id_territorio = calc.id_territorio
                                and calc.data
".(is_null($parametros['data'])?"is null":"= :data ")."
                                and calc.id_indicador = :indicador
```

```php
                    where reg.id_territorio = :territorio
                    group by reg.id_regiao
                                    ,reg.nome
                    order by sum(coalesce(valor,0)) desc,reg.nome asc");

            $comando->bindParam(':indicador', $parametros['indicador']);
            if(!is_null($parametros['data']))
                    $comando->bindParam(':data', $parametros['data']);
            $comando->bindParam(':territorio', $parametros['territorio']);

            if(!$comando->execute()){
                    $erro = $comando->errorInfo();
                    return $erro[2];
            } else {
                    $dados_categoria = $comando->fetchAll(PDO::FETCH_NUM);
                    foreach($dados_categoria as &$linha){
                            $linha = $linha[0];
                    }
                    $dados['categorias'] = $dados_categoria;
            }

            $comando = $pdo->prepare("
                    select reg.id_regiao as codigo
                    from fonte_dados.regiao reg
                    left join sistema.indicador_calculo calc
                                    on reg.id_regiao = calc.id_regiao
                                    and reg.id_territorio = calc.id_territorio
                                    and calc.data
".(is_null($parametros['data']))?"is null":"= :data ")."
                                    and calc.id_indicador = :indicador
                    where reg.id_territorio = :territorio
                    group by reg.id_regiao
                                    ,reg.nome
                    order by sum(coalesce(valor,0)) desc,reg.nome asc");

            $comando->bindParam(':indicador', $parametros['indicador']);
            if(!is_null($parametros['data']))
                    $comando->bindParam(':data', $parametros['data']);
            $comando->bindParam(':territorio', $parametros['territorio']);

            if(!$comando->execute()){
                    $erro = $comando->errorInfo();
                    return $erro[2];
            } else {
                    $dados_codigo = $comando->fetchAll(PDO::FETCH_NUM);
                    foreach($dados_codigo as &$linha){
```

```php
                $linha = $linha[0];
            }
            $dados['codigos'] = $dados_codigo;
        }

        $response = new WP_REST_Response( $dados );
        return $response;

    }
}
```

View query_indicador

- View:

sistema.query_indicador

```sql
-- DROP VIEW sistema.query_indicador;


CREATE OR REPLACE VIEW sistema.query_indicador AS
 SELECT COALESCE(comp.id_indicador_pai,
query_indicador.id_indicador) AS id_indicador,
    query_indicador.id_territorio,
    'insert into sistema.indicador_calculo
(id_indicador,data,id_regiao,dimensao,id_territorio,valor)
'::text ||
        CASE
            WHEN comp.id_indicador_pai IS NOT NULL THEN
((((( ' select '::text || comp.id_indicador_pai) ||
',data,id_regiao,'::text) || COALESCE(('''''::text ||
comp.dimensao) || ''''''::text, 'dimensao'::text)) || '
,id_territorio,valor from ('::text) ||
query_indicador.query) || ') query_indicador '::text
            ELSE query_indicador.query
        END AS query
   FROM sistema.indicador_composicao comp
     FULL JOIN ( SELECT i_v.id_indicador,
                CASE
                    WHEN col.cont_terr = 0 AND NOT
c_ant.id_territorio IS NULL OR i_v.id_variavel IS NULL THEN
c_ant.id_territorio
                    ELSE c.id_territorio
                END AS id_territorio,
                (((((((((((((((((((((((((((((((((('
    select'::text || '
```

```sql
'::text) || i_v.id_indicador) || ' as id_indicador'::text)
|| '
'::text) || ','::text) || 'coalesce('::text) ||
string_agg(('cast(v'::text || v.id_variavel) || '.data as
date)'::text, ','::text ORDER BY i_v.id_indicador,
i_v.ordem)) || ') as data'::text) || '
'::text) || ','::text) || 'coalesce('::text) ||
string_agg(('cast(v'::text || v.id_variavel) || '.id_regiao
as numeric)'::text, ','::text ORDER BY i_v.id_indicador,
i_v.ordem)) || ') as id_regiao'::text) || '
'::text) || ','::text) || 'coalesce('::text) ||
string_agg(('cast(v'::text || v.id_variavel) || '.dimensao
as text)'::text, ','::text ORDER BY i_v.id_indicador,
i_v.ordem)) || ') as dimensao'::text) || '
'::text) || ','::text) ||
                CASE
                    WHEN col.cont_terr = 0 AND NOT
c_ant.id_territorio IS NULL OR i_v.id_variavel IS NULL THEN
c_ant.id_territorio
                    ELSE c.id_territorio
                END) || ' as id_territorio'::text) || '
'::text) || ','::text) ||
                CASE
                    WHEN string_agg(i_v.operador, ' '::text
ORDER BY i_v.id_indicador, i_v.ordem) ~~ '%/%'::text THEN
(' case when '::text || string_agg(
                        CASE
                            WHEN i_v_ant.operador = '/'::text
THEN COALESCE(('cast(coalesce(v'::text || v.id_variavel) ||
'.valor,0) as numeric) '::text, ''::text)
                            ELSE ''::text
                        END, ' '::text ORDER BY
i_v.id_indicador, i_v.ordem)) || ' = 0 then 0 else '::text
                    ELSE ''::text
                END) || 'round('::text) ||
string_agg((COALESCE(i_v.aninhamento, ''::text) ||
COALESCE(('cast(coalesce(v'::text || v.id_variavel) ||
'.valor,0) as numeric) '::text, ''::text)) ||
COALESCE(i_v.operador, ''::text), ' '::text ORDER BY
i_v.id_indicador, i_v.ordem)) || ',4) '::text) ||
                CASE
                    WHEN string_agg(i_v.operador, ' '::text
ORDER BY i_v.id_indicador, i_v.ordem) ~~ '%/%'::text THEN '
end '::text
                    ELSE ''::text
                END) || ' as valor '::text) || '
```

```
'::text) || ' from '::text) || '
'::text) || string_agg(((((
                CASE
                    WHEN i_v.rank > 1 AND NOT
(v.coluna_data IS NULL AND v.coluna_dimensao IS NULL AND
v.distribuicao = true) THEN (('
'::text || v.tipo_cruzamento) || ' join '::text) || '
'::text
                    WHEN v.coluna_data IS NULL AND
v.coluna_dimensao IS NULL AND v.distribuicao = true THEN '
cross join '::text
                    ELSE ''::text
                END || '('::text) || c.query) || ')
v'::text) ||
                CASE
                    WHEN i_v.rank_variavel > 1 THEN
NULL::integer
                    ELSE v.id_variavel
                END) ||
                CASE
                    WHEN i_v.rank > 1 AND NOT
(v.coluna_data IS NULL AND v.coluna_dimensao IS NULL AND
v.distribuicao = true) THEN ((((('
'::text || ' on '::text) ||
                    CASE
                        WHEN v.distribuicao = false THEN
((((('v'::text || v_ant.id_variavel) || '.id_regiao =
'::text) || 'v'::text) || v.id_variavel) || '.id_regiao
'::text
                        ELSE ''::text
                    END) ||
                    CASE
                        WHEN v.distribuicao = false AND
v.coluna_data IS NOT NULL AND v_ant.coluna_data IS NOT NULL
THEN ' and '::text
                        ELSE ''::text
                    END) ||
                    CASE
                        WHEN v.coluna_data IS NOT NULL AND
v_ant.coluna_data IS NOT NULL THEN ((((('v'::text ||
v_ant.id_variavel) || '.data = '::text) || 'v'::text) ||
v.id_variavel) || '.data '::text
                        ELSE ''::text
                    END) ||
                    CASE
                        WHEN (v.distribuicao = false OR
```

```sql
v.coluna_data IS NOT NULL AND v_ant.coluna_data IS NOT
NULL) AND v.coluna_dimensao IS NOT NULL AND NOT
((v.desabilitar_dim_raiz = true OR v.desabilitar_dim_raiz =
true) AND c.id_territorio =
sistema.territorio_raiz(c.id_territorio)) THEN ' and
'::text
                            ELSE ''::text
                    END) ||
                    CASE
                        WHEN v.coluna_dimensao IS NOT NULL
AND NOT ((v.desabilitar_dim_raiz = true OR
v.desabilitar_dim_raiz = true) AND c.id_territorio =
sistema.territorio_raiz(c.id_territorio)) THEN
(((('v'::text || v_ant.id_variavel) || '.dimensao =
'::text) || 'v'::text) || v.id_variavel) || '.dimensao
'::text
                            ELSE ''::text
                    END
                    ELSE ''::text
                END, ''::text ORDER BY i_v.id_indicador,
i_v.rank)) || '
'::text) || ' order by '::text) || '
'::text) || ' id_regiao'::text) || '
'::text) || ' ,data'::text) || '
'::text) || ' ,dimensao'::text AS query
        FROM ( SELECT rank() OVER (PARTITION BY
indicador_x_variavel.id_indicador ORDER BY
indicador_x_variavel.ordem) AS rank,
                    rank() OVER (PARTITION BY
indicador_x_variavel.id_indicador,
indicador_x_variavel.id_variavel ORDER BY
indicador_x_variavel.ordem) AS rank_variavel,
                    indicador_x_variavel.id_indicador,
                    indicador_x_variavel.id_variavel,
                    indicador_x_variavel.operador,
                    indicador_x_variavel.ordem,
                    indicador_x_variavel.aninhamento
                FROM sistema.indicador_x_variavel) i_v
            LEFT JOIN sistema.query_variavel c ON
c.id_variavel = i_v.id_variavel
            LEFT JOIN sistema.variavel v ON v.id_variavel
= i_v.id_variavel
            LEFT JOIN ( SELECT rank() OVER (PARTITION BY
indicador_x_variavel.id_indicador ORDER BY
indicador_x_variavel.ordem) AS rank,
                    indicador_x_variavel.id_indicador,
```

```sql
                                indicador_x_variavel.id_variavel,
                                indicador_x_variavel.operador,
                                indicador_x_variavel.ordem,
                                indicador_x_variavel.aninhamento
                            FROM sistema.indicador_x_variavel)
            i_v_ant ON i_v_ant.id_indicador = i_v.id_indicador AND
            i_v.rank = (i_v_ant.rank + 1)
                    LEFT JOIN sistema.variavel v_ant ON
            v_ant.id_variavel = i_v_ant.id_variavel
                    LEFT JOIN ( SELECT
            COALESCE(coluna.id_fonte_dados, f.id_fonte_dados) AS
            id_fonte_dados,
                                count(coluna.id_territorio) AS
            cont_terr
                            FROM sistema.coluna
                                FULL JOIN sistema.fonte_dados f ON
            f.id_fonte_dados = coluna.id_fonte_dados
                            GROUP BY (COALESCE(coluna.id_fonte_dados,
            f.id_fonte_dados))) col ON v.id_fonte_dados =
            col.id_fonte_dados
                    LEFT JOIN sistema.query_variavel c_ant ON
            c_ant.id_variavel = v_ant.id_variavel AND (col.cont_terr =
            0 OR i_v.id_variavel IS NULL)
                    GROUP BY i_v.id_indicador, (
                        CASE
                            WHEN col.cont_terr = 0 AND NOT
            c_ant.id_territorio IS NULL OR i_v.id_variavel IS NULL THEN
            c_ant.id_territorio
                            ELSE c.id_territorio
                        END)
                    ORDER BY i_v.id_indicador) query_indicador ON
            query_indicador.id_indicador = comp.id_indicador_filho;


            ALTER TABLE sistema.query_indicador
              OWNER TO postgres;
```

View query_variavel

```sql
-- View:
sistema.query_variavel
```

```sql
-- DROP VIEW sistema.query_variavel;
```

```sql
CREATE OR REPLACE VIEW sistema.query_variavel AS
 SELECT DISTINCT h.id_territorio,
    v.id_variavel,
    (((
        CASE
            WHEN v.acumulativa THEN (((((((('select
cast(date_trunc('::text ||
            CASE
                WHEN v.periodicidade = 'mensal'::text THEN
'''month'''::text
                WHEN v.periodicidade = 'anual'::text THEN
'''year'''::text
                WHEN v.periodicidade = 'trimestral'::text
THEN '''quarter'''::text
                ELSE ''::text
            END) || ',tempo.data) as date) as data
,cast(tempo.id_regiao as numeric) as id_regiao
,tempo.dimensao
,'::text) || v.id_variavel) || ' as id_variavel
,'::text) || campos.campo_territorio) || ' as id_territorio
,sum(valor) OVER (PARTITION BY
tempo.id_regiao,tempo.dimensao,'::text) ||
campos.campo_territorio) || ' ORDER BY tempo.data ) as valor
from ('::text
            ELSE ''::text
        END ||
((((((((((((((((((((((((((((((((((((((('select
'::text || '
'::text) || campos.campo_data) || ' as data '::text) || '
'::text) || ','::text) || campos.campo_regiao) || ' as
id_regiao '::text) || '
'::text) || ','::text) || campos.campo_dimensao) || ' as
dimensao'::text) || ','::text) || v.id_variavel::text) || '
as id_variavel '::text) || '
'::text) || ','::text) || campos.campo_territorio) || ' as
id_territorio'::text) || '
'::text) || ','::text) ||
sistema.oper_agg(v.operacao_agregacao)) || '('::text) ||
COALESCE(sistema.num_format(v.coluna_valor, d.nome_tabela),
'*'::text)) || ')'::text) || ' as valor'::text) || '
'::text) || 'from fonte_dados.'::text) ||
quote_ident(d.nome_tabela)) || ' f'::text) || '
'::text) || campos.join_hierarquia) || COALESCE('
'::text || f."where", ''::text)) || '
'::text) || 'group by '::text) ||
        CASE
```

```sql
            WHEN campos.campo_regiao <> 'null'::text THEN
campos.campo_regiao
            ELSE ' id_regiao '::text
        END) || '
'::text) || '          ,'::text) ||
        CASE
            WHEN campos.campo_data <> 'null'::text THEN
campos.campo_data
            ELSE ' data '::text
        END) || '
'::text) || '          ,'::text) ||
        CASE
            WHEN campos.campo_dimensao <> 'null'::text THEN
campos.campo_dimensao
            ELSE ' dimensao '::text
        END) || '
'::text) || 'order by '::text) ||
        CASE
            WHEN campos.campo_regiao <> 'null'::text THEN
campos.campo_regiao
            ELSE ' id_regiao '::text
        END) || '
'::text) || '          ,'::text) ||
        CASE
            WHEN campos.campo_data <> 'null'::text THEN
campos.campo_data
            ELSE ' data '::text
        END) || '
'::text)) || '          ,'::text) ||
        CASE
            WHEN campos.campo_dimensao <> 'null'::text THEN
campos.campo_dimensao
            ELSE ' dimensao '::text
        END) ||
        CASE
            WHEN v.acumulativa THEN (((((((((((((((((((' )
var   right join
(select
        base.id_regiao
        ,base.dimensao
        ,generate_series (min('::text || campos.campo_data)
|| ')
                    , max('::text ||
campos.campo_data) || ')
                    , interval ''1 '::text) ||
            CASE
```

```sql
                    WHEN v.periodicidade = 'mensal'::text THEN
'month'::text
                    WHEN v.periodicidade = 'anual'::text THEN
'year'::text
                    WHEN v.periodicidade = 'trimestral'::text
THEN 'quarter'::text
                    ELSE ''::text
                END) || ''')::date AS data
        from fonte_dados.'::text) ||
quote_ident(d.nome_tabela)) || '
            cross join (select distinct '::text) ||
campos.campo_regiao) || ' as id_regiao,'::text) ||
campos.campo_dimensao) || ' as dimensao from
fonte_dados.'::text) || quote_ident(d.nome_tabela)) || ' f
'::text) || campos.join_hierarquia) || ' '::text) ||
COALESCE(f."where", ''::text)) || ') base
        group by
        base.id_regiao
        ,base.dimensao
        ) tempo on tempo.data = var.data and '::text) ||
            CASE
                WHEN NOT v.distribuicao THEN '
tempo.id_regiao = var.id_regiao and '::text
                ELSE ''::text
            END) || ' coalesce(tempo.dimensao,'''') =
coalesce(var.dimensao,'''') '::text
            ELSE ''::text
        END AS query
   FROM sistema.variavel v
     JOIN sistema.fonte_dados d ON v.id_fonte_dados =
d.id_fonte_dados
     JOIN sistema.config_territorio_variavel h ON
h.id_variavel = v.id_variavel
     JOIN sistema.config_territorio_variavel h_base ON
h_base.altura = 1 AND h_base.id_variavel = h.id_variavel
     JOIN ( SELECT h_1.id_territorio,
            v_1.id_variavel,
                CASE
                    WHEN v_1.periodicidade IS NULL OR
v_1.coluna_data IS NULL THEN 'null'::text
                    ELSE
COALESCE(((('cast(date_trunc('''::text ||
sistema.trunc_peri(quote_ident(v_1.periodicidade))) ||
''','::text) || quote_ident(v_1.coluna_data)) || ') as
date)'::text, 'null'::text)
                END ||
```

```sql
            CASE
                WHEN v_1.crescimento THEN
                CASE
                    WHEN v_1.periodicidade =
'anual'::text THEN '+ interval ''1 year'''::text
                    WHEN v_1.periodicidade =
'trimestral'::text THEN '+ interval ''12 months'''::text
                    WHEN v_1.periodicidade =
'mensal'::text THEN '+ interval ''12 months'''::text
                    ELSE ''::text
                END
                ELSE ''::text
            END AS campo_data,
            CASE
                WHEN v_1.distribuicao = true THEN '
cast(null as numeric) '::text
                ELSE
                CASE
                    WHEN h_1.coluna IS NOT NULL THEN
COALESCE(sistema.num_format(h_1.coluna, d_1.nome_tabela),
h_1.coluna)
                    WHEN h_1.altura > 1 AND
h_1.id_territorio <>
sistema.territorio_raiz(h_1.id_territorio) THEN '
r.id_regiao_pai '::text
                    ELSE '1'::text
                END
            END AS campo_regiao,
            CASE
                WHEN v_1.desabilitar_dim_raiz = true AND
h_1.id_territorio_pai IS NULL OR v_1.coluna_dimensao IS NULL
THEN 'null'::text
                ELSE ('trim(both '' '' from '::text ||
quote_ident(v_1.coluna_dimensao)) || ')'::text
            END AS campo_dimensao,
            CASE
                WHEN v_1.distribuicao = true THEN
sistema.territorio_raiz(h_1.id_territorio)
                ELSE h_1.id_territorio
            END AS campo_territorio,
            CASE
                WHEN v_1.distribuicao = false AND
h_1.altura > 1 AND h_1.id_territorio <>
sistema.territorio_raiz(h_1.id_territorio) THEN
(((((((('inner join sistema.regiao_agregacao r '::text || '
'::text) || 'on r.id_regiao_filho = f.'::text) ||
```

```sql
COALESCE(sistema.num_format(h_base_1.coluna,
d_1.nome_tabela), h_base_1.coluna)) || '
'::text) || ' and r.id_territorio_filho = '::text) ||
quote_literal(h_base_1.id_territorio)) || '
'::text) || ' and r.id_territorio_pai =   '::text) ||
quote_literal(h_1.id_territorio)
                        ELSE ''::text
                    END AS join_hierarquia
            FROM sistema.variavel v_1
              JOIN sistema.fonte_dados d_1 ON
v_1.id_fonte_dados = d_1.id_fonte_dados
              JOIN sistema.config_territorio_variavel h_1 ON
h_1.id_variavel = v_1.id_variavel
              JOIN sistema.config_territorio_variavel
h_base_1 ON h_base_1.altura = 1 AND h_base_1.id_variavel =
h_1.id_variavel
              JOIN ( SELECT
config_territorio_variavel.id_variavel,

min(config_territorio_variavel.id_territorio) AS
id_territorio,
                    config_territorio_variavel.hierarquia
                   FROM sistema.config_territorio_variavel
                  WHERE config_territorio_variavel.altura =
1
                  GROUP BY
config_territorio_variavel.id_variavel,
config_territorio_variavel.hierarquia
                  ORDER BY
config_territorio_variavel.id_variavel) h_base_filtro_1 ON
h_base_1.id_variavel = h_base_filtro_1.id_variavel AND
h_base_1.id_territorio = h_base_filtro_1.id_territorio
              LEFT JOIN LATERAL ( SELECT filtro.id_variavel,
                    'where '::text ||
string_agg(((((((((COALESCE(('
      '::text || filtro.aninhamento) || '
      '::text, ''::text) || ' '::text) ||
COALESCE(quote_ident(filtro.coluna), ''::text)) || '
'::text) || COALESCE(filtro.operador_comparador, ''::text))
|| ' '::text) || COALESCE(
                    CASE
                        WHEN filtro.operador_comparador
~~ '%is%'::text THEN filtro.valor
                        ELSE quote_literal(filtro.valor)
                    END, ''::text)) || ' '::text) ||
COALESCE('
```

```sql
        '::text || filtro.operador_logico, ''::text),
''::text ORDER BY filtro.id_variavel, filtro.ordem) AS
"where"
                 FROM sistema.variavel_filtro filtro
                 GROUP BY filtro.id_variavel) f_1 ON
f_1.id_variavel = v_1.id_variavel) campos ON
campos.id_variavel = v.id_variavel AND campos.id_territorio
= h.id_territorio
     JOIN ( SELECT config_territorio_variavel.id_variavel,
            min(config_territorio_variavel.id_territorio) AS
id_territorio,
            config_territorio_variavel.hierarquia
          FROM sistema.config_territorio_variavel
          WHERE config_territorio_variavel.altura = 1
          GROUP BY config_territorio_variavel.id_variavel,
config_territorio_variavel.hierarquia
          ORDER BY config_territorio_variavel.id_variavel)
h_base_filtro ON h_base.id_variavel =
h_base_filtro.id_variavel AND h_base.id_territorio =
h_base_filtro.id_territorio
     LEFT JOIN LATERAL ( SELECT filtro.id_variavel,
            'where '::text || string_agg(((((((COALESCE(('
'::text || filtro.aninhamento) || '
'::text, ''::text) || ' '::text) ||
COALESCE(quote_ident(filtro.coluna), ''::text)) || '
'::text) || COALESCE(filtro.operador_comparador, ''::text))
|| ' '::text) || COALESCE(
                CASE
                    WHEN filtro.operador_comparador ~~
'%is%'::text THEN filtro.valor
                    ELSE quote_literal(filtro.valor)
                END, ''::text)) || ' '::text) || COALESCE('
'::text || filtro.operador_logico, ''::text), ''::text ORDER
BY filtro.id_variavel, filtro.ordem) AS "where"
           FROM sistema.variavel_filtro filtro
          WHERE NOT (filtro.excluir_regiao_raiz = true AND
h.id_territorio = sistema.territorio_raiz(h.id_territorio))
          GROUP BY filtro.id_variavel) f ON f.id_variavel =
v.id_variavel
  ORDER BY v.id_variavel, h.id_territorio;


ALTER TABLE sistema.query_variavel
  OWNER TO postgres;
```

View regiao_agregacao

-- View:
sistema.regiao_agregacao

-- DROP VIEW sistema.regiao_agregacao;

```sql
CREATE OR REPLACE VIEW sistema.regiao_agregacao AS
 WITH RECURSIVE agg AS (
        SELECT agg.id_regiao_filho,
            agg.id_territorio_filho,
            agg.id_regiao_pai,
            agg.id_territorio_pai
           FROM fonte_dados.regiao_agregacao agg
        ), regiao_agregacao(id_regiao_filho,
id_territorio_filho, id_regiao_pai, id_territorio_pai) AS
(
        SELECT a.id_regiao_filho,
            a.id_territorio_filho,
            a.id_regiao_pai,
            a.id_territorio_pai,
            true AS agregado
           FROM agg a
        UNION ALL
         SELECT DISTINCT r.id_regiao_filho,
            r.id_territorio_filho,
            a.id_regiao_pai,
            a.id_territorio_pai,
                CASE r.agregado
                    WHEN true THEN false
                    ELSE true
                END AS agregado
           FROM regiao_agregacao r
             JOIN agg a ON r.id_territorio_pai =
a.id_territorio_filho AND r.id_regiao_pai =
a.id_regiao_filho
          WHERE r.agregado = true
        )
 SELECT DISTINCT regiao_agregacao.id_regiao_filho,
    regiao_agregacao.id_territorio_filho,
    regiao_agregacao.id_regiao_pai,
    regiao_agregacao.id_territorio_pai,
    regiao_agregacao.agregado
   FROM regiao_agregacao;
```

```sql
ALTER TABLE sistema.regiao_agregacao
    OWNER TO postgres;
```

View config_territorio_variavel

```sql
-- View:
sistema.config_territorio_variavel

-- DROP VIEW sistema.config_territorio_variavel;

CREATE OR REPLACE VIEW
sistema.config_territorio_variavel AS
 WITH RECURSIVE
config_territorio_variavel(id_variavel,
id_territorio, id_territorio_pai, hierarquia,
coluna, altura) AS (
        SELECT DISTINCT v.id_variavel,
            COALESCE(t.id_territorio, 4) AS
"coalesce",
            t.id_territorio_pai,
            COALESCE(t.hierarquia,
'Administrativa'::text) AS "coalesce",
            c.nome AS coluna,
            1 AS altura
           FROM fonte_dados.territorio t
             JOIN sistema.coluna c ON
c.id_territorio = t.id_territorio
             RIGHT JOIN sistema.variavel v ON
c.id_fonte_dados = v.id_fonte_dados
        UNION ALL
         SELECT DISTINCT r.id_variavel,
            t.id_territorio,
            t.id_territorio_pai,
            t.hierarquia,
            c.nome AS coluna,
            r.altura + 1 AS altura
           FROM config_territorio_variavel r
             JOIN fonte_dados.territorio t ON
t.id_territorio = r.id_territorio_pai
             LEFT JOIN sistema.variavel v ON
v.id_variavel = r.id_variavel
             LEFT JOIN sistema.coluna c ON
c.id_fonte_dados = v.id_fonte_dados AND
```

```sql
    c.id_territorio = t.id_territorio
            )
  SELECT DISTINCT
config_territorio_variavel.id_variavel,
    config_territorio_variavel.id_territorio,

config_territorio_variavel.id_territorio_pai,
    config_territorio_variavel.hierarquia,
    config_territorio_variavel.coluna,
    min(config_territorio_variavel.altura) AS
altura
    FROM config_territorio_variavel
  GROUP BY
config_territorio_variavel.id_variavel,
config_territorio_variavel.id_territorio,
config_territorio_variavel.id_territorio_pai,
config_territorio_variavel.hierarquia,
config_territorio_variavel.coluna;


ALTER TABLE sistema.config_territorio_variavel
  OWNER TO postgres;
```

Function calcular_indicador

```sql
-- Function:
sistema.calcular_indicador(inte
ger)



-- DROP FUNCTION
sistema.calcular_indicador(integer);



CREATE OR REPLACE FUNCTION
sistema.calcular_indicador(id_indicador_calculo
integer DEFAULT NULL::integer)
  RETURNS void AS
$BODY$
declare query_indicadores cursor for
    select *
    from sistema.query_indicador query
            inner join sistema.indicador indic
                    on indic.id_indicador =
query.id_indicador
        where (id_indicador_calculo =
```

```sql
        query.id_indicador or id_indicador_calculo is null)
and indic.ativo = true;
declare query_variaveis cursor for
        select *
        from sistema.query_variavel query
        inner join sistema.variavel var
                on var.id_variavel =
query.id_variavel
        where (query.id_variavel in (select
id_variavel from sistema.indicador_x_variavel where
id_indicador = id_indicador_calculo)
                or id_indicador_calculo is null) and
not (var.distribuicao = true and id_territorio !=
sistema.territorio_raiz(id_territorio));


begin
        delete from sistema.indicador_calculo
        where id_indicador = id_indicador_calculo or
id_indicador_calculo is null;

        delete from sistema.variavel_calculo
        where id_variavel in (select id_variavel
from sistema.indicador_x_variavel where
id_indicador = id_indicador_calculo) or
id_indicador_calculo is null;


    for query_indicador IN query_indicadores
    loop
        execute query_indicador.query;
    end loop;


    for query_variavel IN query_variaveis
        loop
                execute 'insert into
sistema.variavel_calculo
(data,id_regiao,dimensao,id_variavel,id_territorio,
valor) ' || query_variavel.query;
        end loop;
end;
$BODY$
  LANGUAGE plpgsql VOLATILE
  COST 100;
ALTER FUNCTION sistema.calcular_indicador(integer)
```

Pentaho

AgregarMetadadosArquivo.ktr

```xml
<tr
ans
for
mat
ion
>

        <info>

          <name>AgregarMetadadosArquivo</name>

          <description/>

          <extended_description/>

          <trans_version/>

          <trans_type>Normal</trans_type>

          <trans_status>0</trans_status>

          <directory>&#x2f;</directory>

          <parameters>

          </parameters>

          <log>

    <trans-log-table><connection/>

    <schema/>

    <table/>

    <size_limit_lines/>

    <interval/>

    <timeout_days/>
```

<field><id>CLIENT</id><enabled>N</enabled><name>CLIENT</name></field></trans-log-table>

<perf-log-table>

<table/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>SEQ_NR</id><enabled>Y</enabled><name>SEQ_NR</name></field><field><id>LOGDATE</id><enabled>Y</enabled><name>LOGDATE</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STEPNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>STEP_COPY</id><enabled>Y</enabled><name>STEP_COPY</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>INPUT_BUFFER_ROWS</id><enabled>Y</enabled><name>INPUT_BUFFER_ROWS</name></field><field>

id>OUTPUT_BUFFER_ROWS</id><enabled>Y</enabled><name>OUTPUT_BUFFER_ROWS</name><
/field></perf-log-table>

<channel-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><fiel
d><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field
><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>
LOGGING_OBJECT_TYPE</id><enabled>Y</enabled><name>LOGGING_OBJECT_TYPE</name></
field><field><id>OBJECT_NAME</id><enabled>Y</enabled><name>OBJECT_NAME</name><
/field><field><id>OBJECT_COPY</id><enabled>Y</enabled><name>OBJECT_COPY</name>
</field><field><id>ROOT_CHANNEL_ID</id><enabl
ed>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

<step-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><fiel
d><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><i
d>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><f
ield><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>

LOG_FIELD</id><enabled>N</enabled><name>LOG_FIELD</name></field></step-log-table>

<metrics-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>METRICS_DATE</id><enabled>Y</enabled><name>METRICS_DATE</name></field><field><id>METRICS_CODE</id><enabled>Y</enabled><name>METRICS_CODE</name></field><field><id>METRICS_DESCRIPTION</id><enabled>Y</enabled><name>METRICS_DESCRIPTION</name></field><field><id>METRICS_SUBJECT</id><enabled>Y</enabled><name>METRICS_SUBJECT</name></field><field><id>METRICS_TYPE</id><enabled>Y</enabled><name>METRICS_TYPE</name></field><field><id>METRICS_VALUE</id><enabled>Y</enabled><name>METRICS_VALUE</name></field></metrics-log-table>

    </log>

    <maxdate>

      <connection/>

      <table/>

      <field/>

      <offset>0.0</offset>

      <maxdiff>0.0</maxdiff>

    </maxdate>

    <size_rowset>10000</size_rowset>

    <sleep_time_empty>50</sleep_time_empty>

    <sleep_time_full>50</sleep_time_full>

    N

```xml
<feedback_shown>Y</feedback_shown>

<feedback_size>50000</feedback_size>

<using_thread_priorities>Y</using_thread_priorities>

<shared_objects_file/>

<capture_step_performance>N</capture_step_performance>

<step_performance_capturing_delay>1000</step_performance_capturing_delay>

<step_performance_capturing_size_limit>100</step_performance_capturing_size_limit>

<dependencies>

</dependencies>

<partitionschemas>

</partitionschemas>

<slaveservers>

</slaveservers>

<clusterschemas>

</clusterschemas>

<created_user>-</created_user>

<created_date>2016&#x2f;06&#x2f;17 15&#x3a;19&#x3a;52.018</created_date>

<modified_user>-</modified_user>

<modified_date>2016&#x2f;12&#x2f;04 07&#x3a;09&#x3a;47.853</modified_date>

<key_for_session_key>H4sIAAAAAAAAAMAAAAAAAAAAA&#x3d;</key_for_session_key>

<is_key_private>N</is_key_private>

</info>
```

```xml
    <notepads>

    </notepads>

    <connection>

      <name>MonitoramentoPDE_PostgreSQL</name>

      <server>&#x24;&#x7b;MONITORAMENTO_PDE_HOST&#x7d;</server>

      <type>POSTGRESQL</type>

      <access>Native</access>

      <database>&#x24;&#x7b;MONITORAMENTO_PDE_BANCO&#x7d;</database>

      <port>&#x24;&#x7b;MONITORAMENTO_PDE_PORTA&#x7d;</port>

      <username>&#x24;&#x7b;MONITORAMENTO_PDE_USUARIO&#x7d;</username>

      <password>&#x24;&#x7b;MONITORAMENTO_PDE_SENHA&#x7d;</password>

      <servername/>

      <data_tablespace/>

      <index_tablespace/>

      <attributes>

<attribute><code>FORCE_IDENTIFIERS_TO_LOWERCASE</code><attribute>N</attribute>
</attribute>

<attribute><code>FORCE_IDENTIFIERS_TO_UPPERCASE</code><attribute>N</attribute>
</attribute>

        <attribute><code>IS_CLUSTERED</code><attribute>N</attribute></attribute>

<attribute><code>PORT_NUMBER</code><attribute>&#x24;&#x7b;MONITORAMENTO_PDE_PO
RTA&#x7d;</attribute></attribute>
```

```xml
<attribute><code>PRESERVE_RESERVED_WORD_CASE</code><attribute>Y</attribute></attribute>

<attribute><code>QUOTE_ALL_FIELDS</code><attribute>N</attribute></attribute>

<attribute><code>SUPPORTS_BOOLEAN_DATA_TYPE</code><attribute>Y</attribute></attribute>

<attribute><code>SUPPORTS_TIMESTAMP_DATA_TYPE</code><attribute>Y</attribute></attribute>

      <attribute><code>USE_POOLING</code><attribute>N</attribute></attribute>

    </attributes>

  </connection>

  <order>

  <hop> <from>Filtrar linha do cabe&#xe7;alho</from><to>Descarta
conteudo</to><enabled>Y</enabled> </hop>

  <hop> <from>Numerar as linhas</from><to>Filtrar linha do
cabe&#xe7;alho</to><enabled>N</enabled> </hop>

  <hop> <from>Filtrar linha do cabe&#xe7;alho</from><to>Especificacao mapping
output </to><enabled>Y</enabled> </hop>

  <hop> <from>Especificacao mapping input</from><to>Juntar data arquivo com
base</to><enabled>Y</enabled> </hop>

  <hop> <from>Juntar data arquivo com base</from><to>Numerar as
linhas</to><enabled>N</enabled> </hop>

  <hop> <from>Obter configuracao do
arquivo</from><to>ExtrairDataNomeArquivo</to><enabled>Y</enabled> </hop>

  <hop> <from>Data da carga</from><to>Colocar data da
carga</to><enabled>Y</enabled> </hop>

  <hop> <from>ExtrairDataNomeArquivo</from><to>Colocar data da
carga</to><enabled>Y</enabled> </hop>
```

```
    <hop> <from>Colocar data da carga</from><to>Juntar data arquivo com
base</to><enabled>Y</enabled> </hop>

    <hop> <from>Juntar data arquivo com base</from><to>Filtrar linha do
cabe&#xe7;alho</to><enabled>Y</enabled> </hop>

    </order>

    <step>

        <name>Colocar data da carga</name>

        <type>JoinRows</type>

        <description/>

        <distribute>Y</distribute>

        <custom_distribution/>

        <copies>1</copies>

            <partitioning>

                <method>none</method>

                <schema_name/>

                </partitioning>

        <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

        <prefix>out</prefix>

        <cache_size>500</cache_size>

        <main>ExtrairDataNomeArquivo</main>

    <compare>

<condition>

 <negated>N</negated>

 <leftvalue/>
```

```xml
<function>&#x3d;</function>

<rightvalue/>

</condition>

    </compare>

    <cluster_schema/>

<remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>384</xloc>

      <yloc>128</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Data da carga</name>

    <type>SystemInfo</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>
```

```xml
<fields>

  <field>

    <name>data_carga</name>

    <type>system date &#x28;variable&#x29;</type>

    </field>

  </fields>

 <cluster_schema/>

<remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>384</xloc>

    <yloc>16</yloc>

    <draw>Y</draw>

    </GUI>

  </step>


  <step>

    <name>Descarta conteudo</name>

    <type>Dummy</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

      <partitioning>
```

```xml
        <method>none</method>

        <schema_name/>

        </partitioning>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>560</xloc>

      <yloc>432</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Especificacao mapping input</name>

    <type>MappingInput</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

    <fields>
```

```xml
      <select_unspecified>N</select_unspecified>

    </fields>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>208</xloc>

      <yloc>240</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Especificacao mapping output </name>

    <type>MappingOutput</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

      <cluster_schema/>
```

```xml
 <remotesteps>    <input>    </input>    <output>    </output> </remotesteps>
<GUI>

        <xloc>384</xloc>

        <yloc>544</yloc>

        <draw>Y</draw>

        </GUI>

    </step>


  <step>

    <name>ExtrairDataNomeArquivo</name>

    <type>SimpleMapping</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

    <specification_method>rep_name</specification_method>

    <trans_object_id/>

    <trans_name>ExtrairDataNomeArquivo</trans_name>

    <filename/>

    <directory_path>&#x2f;</directory_path>
```

```xml
<mappings>

  <input>

<mapping>     <input_step/>

<output_step/>

<main_path>Y</main_path>

<rename_on_output>Y</rename_on_output>

<description/>


<connector><parent>nome_arquivo_carga</parent><child>short_filename</child></connector>

  </mapping>       </input>

    <output>

<mapping>     <input_step/>

<output_step/>

<main_path>Y</main_path>

<rename_on_output>N</rename_on_output>

<description/>

  </mapping>       </output>

        <parameters>     <inherit_all_vars>Y</inherit_all_vars>

  </parameters>

  </mappings>

   <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>
```

```xml
      <xloc>208</xloc>

      <yloc>128</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Filtrar linha do cabe&#xe7;alho</name>

    <type>FilterRows</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

<send_true_to>Especificacao mapping output </send_true_to>

<send_false_to>Descarta conteudo</send_false_to>

      <compare>

<condition>

 <negated>N</negated>

 <leftvalue>NumeroLinha</leftvalue>
```

```xml
<function>&#x3e;</function>

<rightvalue>LinhaCabecalho</rightvalue>

</condition>

    </compare>

    <cluster_schema/>

<remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>384</xloc>

      <yloc>432</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Juntar data arquivo com base</name>

    <type>JoinRows</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>
```

```xml
          <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

          <prefix>out</prefix>

          <cache_size>500</cache_size>

          <main>Especificacao mapping input</main>

      <compare>

<condition>

 <negated>N</negated>

 <leftvalue/>

 <function>&#x3d;</function>

 <rightvalue/>

 </condition>

      </compare>

       <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>384</xloc>

        <yloc>240</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


  <step>

    <name>Numerar as linhas</name>
```

```xml
<type>Sequence</type>

<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

  <valuename>NumeroLinha</valuename>

  <use_database>N</use_database>

  <connection>MonitoramentoPDE_PostgreSQL</connection>

  <schema/>

  <seqname>SEQ_</seqname>

  <use_counter>Y</use_counter>

  <counter_name/>

  <start_at>1</start_at>

  <increment_by>1</increment_by>

  <max_value>999999999</max_value>

 <cluster_schema/>

<remotesteps>  <input>  </input>  <output>  </output> </remotesteps>
<GUI>

  <xloc>560</xloc>

  <yloc>336</yloc>
```

```xml
      <draw>Y</draw>

    </GUI>

  </step>


<step>

  <name>Obter configuracao do arquivo</name>

  <type>GetVariable</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

      </partitioning>

  <fields>

    <field>

      <name>LinhaCabecalho</name>

      <variable>&#x24;&#x7b;LINHA_CABECALHO&#x7d;</variable>

      <type>Integer</type>

      <format/>

      <currency/>

      <decimal/>
```

```
        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>nome_arquivo_carga</name>

        <variable>&#x24;&#x7b;NOME_ARQUIVO_CARGA&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>FormatoArquivo</name>

        <variable>&#x24;&#x7b;FORMATO_ARQUIVO&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>
```

```xml
        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

      </field>

    </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>208</xloc>

        <yloc>16</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


  <step_error_handling>

  </step_error_handling>

    <slave-step-copy-partition-distribution>

</slave-step-copy-partition-distribution>

    <slave_transformation>N</slave_transformation>


</transformation>
```

Carga.kjb

```xml
<job>
    <name>Carga</name>
    <description/>
    <extended_description/>
    <job_version/>
    <job_status>0</job_status>
<directory>&#x2f;</directory>
<created_user>-</created_user>
<created_date>2016&#x2f;06&#x2f;01 16&#x3a;02&#x3a;37.590</created_date>
<modified_user>-</modified_user>
<modified_date>2017&#x2f;05&#x2f;13 16&#x3a;09&#x3a;51.291</modified_date>
    <parameters>
        <parameter>
            <name>DATA_FIM</name>
            <default_value>21991201</default_value>
            <description/>
        </parameter>
        <parameter>
            <name>DATA_INICIO</name>
            <default_value>19000101</default_value>
            <description/>
```

```xml
        </parameter>

        <parameter>

            <name>DIRETORIO_FONTE</name>

<default_value>C&#x3a;&#x5c;Users&#x5c;Dev&#x5c;Downloads&#x5c;</default_value>

            <description/>

        </parameter>

        <parameter>

            <name>FORMATO_ARQUIVO</name>

            <default_value>zde_zpi_rais_1703.xlsx</default_value>

            <description/>

        </parameter>

        <parameter>

            <name>ID_FONTE_DADOS</name>

            <default_value>22</default_value>

            <description/>

        </parameter>

        <parameter>

            <name>LINHA_CABECALHO</name>

            <default_value>1</default_value>

            <description>Linha onde est&#xe1; localizado o
cabe&#xe7;alho</description>

        </parameter>

        <parameter>
```

```xml
        <name>NOME_TABELA</name>

        <default_value/>

        <description/>

    </parameter>

    <parameter>

        <name>SCHEMA_FONTE_DADOS</name>

        <default_value>fonte_dados</default_value>

        <description/>

    </parameter>

    <parameter>

        <name>SCRIPT_SQL</name>

        <default_value/>

        <description/>

    </parameter>

    <parameter>

        <name>SQL_CUSTOM</name>

        <default_value>C&#x3a;&#x5c;MonitoramentoPDE&#x5c;Fonte
Dados&#x5c;Dummy.sql</default_value>

        <description/>

    </parameter>

    <parameter>

        <name>TIPO_ARQUIVO</name>

        <default_value>2</default_value>
```

```xml
            <description/>

        </parameter>

    </parameters>

  <connection>

    <name>MonitoramentoPDE_PostgreSQL</name>

    <server>&#x24;&#x7b;MONITORAMENTO_PDE_HOST&#x7d;</server>

    <type>POSTGRESQL</type>

    <access>Native</access>

    <database>&#x24;&#x7b;MONITORAMENTO_PDE_BANCO&#x7d;</database>

    <port>&#x24;&#x7b;MONITORAMENTO_PDE_PORTA&#x7d;</port>

    <username>&#x24;&#x7b;MONITORAMENTO_PDE_USUARIO&#x7d;</username>

    <password>&#x24;&#x7b;MONITORAMENTO_PDE_SENHA&#x7d;</password>

    <servername/>

    <data_tablespace/>

    <index_tablespace/>

    <attributes>

<attribute><code>FORCE_IDENTIFIERS_TO_LOWERCASE</code><attribute>N</attribute></attribute>

<attribute><code>FORCE_IDENTIFIERS_TO_UPPERCASE</code><attribute>N</attribute></attribute>

      <attribute><code>IS_CLUSTERED</code><attribute>N</attribute></attribute>

<attribute><code>PORT_NUMBER</code><attribute>&#x24;&#x7b;MONITORAMENTO_PDE_PORTA&#x7d;</attribute></attribute>
```

```xml
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<attribute><code>QUOTE_ALL_FIELDS</code><attribute>N</attribute></attribute>

<attribute><code>SUPPORTS_BOOLEAN_DATA_TYPE</code><attribute>Y</attribute></attribute>

<attribute><code>SUPPORTS_TIMESTAMP_DATA_TYPE</code><attribute>Y</attribute></attribute>

    <attribute><code>USE_POOLING</code><attribute>N</attribute></attribute>

  </attributes>

 </connection>

   <slaveservers>

   </slaveservers>

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<schema/>

<table/>

<size_limit_lines/>

<interval/>

<timeout_days/>

<field><id>ID_JOB</id><enabled>Y</enabled><name>ID_JOB</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>JOBNAME</id><enabled>Y</enabled><name>JOBNAME</name></field><field><id>STATUS</id><enabled>Y</enabled><name>STATUS</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y
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</enabled><name>LINES_REJECTED</name></field><field><id>CLIENT</id><enabled>N</enabled><name>CLIENT</name></field></job-log-table>

<jobentry-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>JOBNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>JOBENTRYNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>RESULT</id><enabled>Y</enabled><name>RESULT</name></field><field><id>NR_RESULT_ROWS</id><enabled>Y</enabled><name>NR_RESULT_ROWS</name></field><field><id>NR_RESULT_FILES</id><enabled>Y</enabled><name>NR_RESULT_FILES</name></field><field><id>LOG_FIELD</id><enabled>N</enabled><name>LOG_FIELD</name></field><field><id>COPY_NR</id><enabled>N</enabled><name>COPY_NR</name></field></jobentry-log-table>

<channel-log-table><connection/>

<schema/>

<table/>

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  <pass_batchid>N</pass_batchid>

  <shared_objects_file/>

 <entries>

  <entry>

    <name>START</name>

    <description/>

    <type>SPECIAL</type>

    <start>Y</start>

    <dummy>N</dummy>

    <repeat>N</repeat>

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    <intervalSeconds>0</intervalSeconds>

    <intervalMinutes>60</intervalMinutes>

    <hour>12</hour>

    <minutes>0</minutes>

    <weekDay>1</weekDay>
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```xml
        <DayOfMonth>1</DayOfMonth>

        <parallel>N</parallel>

        <draw>Y</draw>

        <nr>0</nr>

        <xloc>512</xloc>

        <yloc>160</yloc>

      </entry>

    <entry>

      <name>Inicializar Variaveis</name>

      <description/>

      <type>SET_VARIABLES</type>

      <replacevars>Y</replacevars>

<filename>C&#x3a;&#x5c;Pentaho&#x5c;Teste&#x5c;Mock&#x5c;Peuc_notificados.properties</filename>

      <file_variable_type>JVM</file_variable_type>

      <fields>

      </fields>

      <parallel>N</parallel>

      <draw>Y</draw>

      <nr>0</nr>

      <xloc>672</xloc>

      <yloc>256</yloc>

      </entry>
```

```xml
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    <name>CriarEstruturaTabela</name>

    <description/>

    <type>JOB</type>

    <specification_method>rep_name</specification_method>

    <job_object_id/>

    <filename/>

    <jobname>CriarEstruturaTabela</jobname>

    <directory>&#x2f;</directory>

    <arg_from_previous>N</arg_from_previous>

    <params_from_previous>Y</params_from_previous>

    <exec_per_row>N</exec_per_row>

    <set_logfile>N</set_logfile>

    <logfile/>

    <logext/>

    <add_date>N</add_date>

    <add_time>N</add_time>

    <loglevel>Nothing</loglevel>

    <slave_server_name/>

    <wait_until_finished>Y</wait_until_finished>

    <follow_abort_remote>N</follow_abort_remote>

    <expand_remote_job>N</expand_remote_job>

    <create_parent_folder>N</create_parent_folder>
```

```xml
<pass_export>N</pass_export>

<parameters>          <pass_all_parameters>Y</pass_all_parameters>

    <parameter>              <name>ID_FONTE_DADOS</name>

    <stream_name/>

    <value/>

    </parameter>          <parameter>
<name>DIRETORIO_FONTE</name>

    <stream_name/>

    <value/>

    </parameter>          <parameter>
<name>FORMATO_ARQUIVO</name>

    <stream_name/>

    <value/>

    </parameter>      </parameters>
<set_append_logfile>N</set_append_logfile>

    <parallel>N</parallel>

    <draw>Y</draw>

    <nr>0</nr>

    <xloc>512</xloc>

    <yloc>544</yloc>

    </entry>

<entry>

    <name>ListarArquivosParaEstrutura</name>

    <description/>
```

```xml
<type>JOB</type>

<specification_method>rep_name</specification_method>

<job_object_id/>

<filename/>

<jobname>ListarArquivos</jobname>

<directory>&#x2f;</directory>

<arg_from_previous>N</arg_from_previous>

<params_from_previous>N</params_from_previous>

<exec_per_row>N</exec_per_row>

<set_logfile>N</set_logfile>

<logfile/>

<logext/>

<add_date>N</add_date>

<add_time>N</add_time>

<loglevel>Nothing</loglevel>

<slave_server_name/>

<wait_until_finished>Y</wait_until_finished>

<follow_abort_remote>N</follow_abort_remote>

<expand_remote_job>N</expand_remote_job>

<create_parent_folder>N</create_parent_folder>

<pass_export>N</pass_export>

<parameters>          <pass_all_parameters>Y</pass_all_parameters>

     <parameter>               <name>ID_FONTE_DADOS</name>
```

```xml
          <stream_name/>

          <value/>

          </parameter>              <parameter>
<name>DIRETORIO_FONTE</name>

          <stream_name/>

          <value/>

          </parameter>              <parameter>
<name>FORMATO_ARQUIVO</name>

          <stream_name/>

          <value/>

          </parameter>        </parameters>
<set_append_logfile>N</set_append_logfile>

      <parallel>N</parallel>

      <draw>Y</draw>

      <nr>0</nr>

      <xloc>512</xloc>

      <yloc>352</yloc>

      </entry>

    <entry>

      <name>ListarArquivosParaCarga</name>

      <description/>

      <type>JOB</type>

      <specification_method>rep_name</specification_method>

      <job_object_id/>

      <filename/>
```

```xml
<jobname>ListarArquivos</jobname>

<directory>&#x2f;</directory>

<arg_from_previous>N</arg_from_previous>

<params_from_previous>N</params_from_previous>

<exec_per_row>N</exec_per_row>

<set_logfile>N</set_logfile>

<logfile/>

<logext/>

<add_date>N</add_date>

<add_time>N</add_time>

<loglevel>Nothing</loglevel>

<slave_server_name/>

<wait_until_finished>Y</wait_until_finished>

<follow_abort_remote>N</follow_abort_remote>

<expand_remote_job>N</expand_remote_job>

<create_parent_folder>N</create_parent_folder>

<pass_export>N</pass_export>

<parameters>          <pass_all_parameters>Y</pass_all_parameters>

      <parameter>               <name>ID_FONTE_DADOS</name>

      <stream_name/>

      <value/>

      </parameter>               <parameter>
<name>DIRETORIO_FONTE</name>
```

```xml
            <stream_name/>

            <value/>

          </parameter>                <parameter>
<name>FORMATO_ARQUIVO</name>

            <stream_name/>

            <value/>

          </parameter>        </parameters>
<set_append_logfile>N</set_append_logfile>

      <parallel>N</parallel>

      <draw>Y</draw>

      <nr>0</nr>

      <xloc>512</xloc>

      <yloc>640</yloc>

      </entry>

    <entry>

      <name>CargaFonteDados</name>

      <description/>

      <type>JOB</type>

      <specification_method>rep_name</specification_method>

      <job_object_id/>

      <filename/>

      <jobname>CargaFonteDados</jobname>

      <directory>&#x2f;</directory>

      <arg_from_previous>N</arg_from_previous>
```

```xml
<params_from_previous>Y</params_from_previous>

<exec_per_row>Y</exec_per_row>

<set_logfile>N</set_logfile>

<logfile/>

<logext/>

<add_date>N</add_date>

<add_time>N</add_time>

<loglevel>Nothing</loglevel>

<slave_server_name/>

<wait_until_finished>Y</wait_until_finished>

<follow_abort_remote>N</follow_abort_remote>

<expand_remote_job>N</expand_remote_job>

<create_parent_folder>N</create_parent_folder>

<pass_export>N</pass_export>

<parameters>          <pass_all_parameters>Y</pass_all_parameters>

     <parameter>               <name>ID_FONTE_DADOS</name>

     <stream_name/>

     <value/>

     </parameter>            <parameter>
<name>DIRETORIO_FONTE</name>

     <stream_name/>

     <value/>

     </parameter>            <parameter>
<name>FORMATO_ARQUIVO</name>
```

```xml
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          <value/>

          </parameter>        </parameters>
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      <parallel>N</parallel>

      <draw>Y</draw>

      <nr>0</nr>

      <xloc>512</xloc>

      <yloc>736</yloc>

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    <entry>

      <name>VariavelTransformation</name>

      <description/>

      <type>TRANS</type>

      <specification_method>rep_name</specification_method>

      <trans_object_id/>

      <filename/>

      <transname>VariavelTransformation</transname>

      <directory>&#x2f;</directory>

      <arg_from_previous>N</arg_from_previous>

      <params_from_previous>N</params_from_previous>

      <exec_per_row>N</exec_per_row>

      <clear_rows>N</clear_rows>

      <clear_files>N</clear_files>
```

```xml
<set_logfile>N</set_logfile>

<logfile/>

<logext/>

<add_date>N</add_date>

<add_time>N</add_time>

<loglevel>Basic</loglevel>

<cluster>N</cluster>

<slave_server_name/>

<set_append_logfile>N</set_append_logfile>

<wait_until_finished>Y</wait_until_finished>

<follow_abort_remote>N</follow_abort_remote>

<create_parent_folder>N</create_parent_folder>

<logging_remote_work>N</logging_remote_work>

<parameters>          <pass_all_parameters>Y</pass_all_parameters>

       <parameter>               <name>ID_FONTE_DADOS</name>

       <stream_name/>

       <value/>

       </parameter>              <parameter>
<name>DIRETORIO_FONTE</name>

       <stream_name/>

       <value/>

       </parameter>              <parameter>
<name>FORMATO_ARQUIVO</name>

       <stream_name/>
```

```xml
        <value/>

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  <draw>Y</draw>

  <nr>0</nr>

  <xloc>512</xloc>

  <yloc>448</yloc>

  </entry>

 <entry>

  <name>Limpar vari&#xe1;veis</name>

  <description/>

  <type>SET_VARIABLES</type>

  <replacevars>Y</replacevars>

<filename>C&#x3a;&#x5c;Pentaho&#x5c;Teste&#x5c;Mock&#x5c;Limpar_variaveis.propert
ies</filename>

  <file_variable_type>JVM</file_variable_type>

  <fields>

    <field>

      <variable_name>ESTRUTURA_STREAM_BD_IDENTICA</variable_name>

      <variable_value>true</variable_value>

      <variable_type>JVM</variable_type>

    </field>

    <field>

      <variable_name>SQL_CREATE_TABLE</variable_name>
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```xml
        <variable_value> </variable_value>

        <variable_type>JVM</variable_type>

      </field>

    </fields>

    <parallel>N</parallel>

    <draw>Y</draw>

    <nr>0</nr>

    <xloc>672</xloc>

    <yloc>176</yloc>

  </entry>

<entry>

  <name>Comandos SQL customizados</name>

  <description/>

  <type>SQL</type>

  <sql>&#x24;&#x7b;SCRIPT_SQL&#x7d;</sql>

  <useVariableSubstitution>T</useVariableSubstitution>

  <sqlfromfile>F</sqlfromfile>

  <sqlfilename>&#x24;&#x7b;SQL_CUSTOM&#x7d;</sqlfilename>

  <sendOneStatement>F</sendOneStatement>

  <connection>MonitoramentoPDE_PostgreSQL</connection>

  <parallel>N</parallel>

  <draw>Y</draw>

  <nr>0</nr>
```

```
      <xloc>512</xloc>

      <yloc>928</yloc>

      </entry>

  <entry>

      <name>Success</name>

      <description/>

      <type>SUCCESS</type>

      <parallel>N</parallel>

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      </entry>

  <entry>

      <name>GravarDataAtualizacao</name>

      <description/>

      <type>TRANS</type>

      <specification_method>rep_name</specification_method>

      <trans_object_id/>

      <filename/>

      <transname>GravarDataAtualizacao</transname>

      <directory>&#x2f;</directory>

      <arg_from_previous>N</arg_from_previous>
```

```xml
<params_from_previous>N</params_from_previous>

<exec_per_row>N</exec_per_row>

<clear_rows>N</clear_rows>

<clear_files>N</clear_files>

<set_logfile>N</set_logfile>

<logfile/>

<logext/>

<add_date>N</add_date>

<add_time>N</add_time>

<loglevel>Basic</loglevel>

<cluster>N</cluster>

<slave_server_name/>

<set_append_logfile>N</set_append_logfile>

<wait_until_finished>Y</wait_until_finished>

<follow_abort_remote>N</follow_abort_remote>

<create_parent_folder>N</create_parent_folder>

<logging_remote_work>N</logging_remote_work>

<parameters>          <pass_all_parameters>Y</pass_all_parameters>

     <parameter>              <name>ID_FONTE_DADOS</name>

     <stream_name/>

     <value/>

     </parameter>              <parameter>
<name>DIRETORIO_FONTE</name>
```

```xml
          <stream_name/>

          <value/>

          </parameter>              <parameter>
<name>FORMATO_ARQUIVO</name>

          <stream_name/>

          <value/>

          </parameter>        </parameters>        <parallel>N</parallel>

      <draw>Y</draw>

      <nr>0</nr>

      <xloc>512</xloc>

      <yloc>832</yloc>

      </entry>

    <entry>

      <name>Definir vari&#xe1;veis</name>

      <description/>

      <type>TRANS</type>

      <specification_method>rep_name</specification_method>

      <trans_object_id/>

      <filename/>

      <transname>DefinirVariaveis</transname>

      <directory>&#x2f;</directory>

      <arg_from_previous>N</arg_from_previous>

      <params_from_previous>N</params_from_previous>

      <exec_per_row>N</exec_per_row>
```

```xml
<clear_rows>N</clear_rows>

<clear_files>N</clear_files>

<set_logfile>N</set_logfile>

<logfile/>

<logext/>

<add_date>N</add_date>

<add_time>N</add_time>

<loglevel>Basic</loglevel>

<cluster>N</cluster>

<slave_server_name/>

<set_append_logfile>N</set_append_logfile>

<wait_until_finished>Y</wait_until_finished>

<follow_abort_remote>N</follow_abort_remote>

<create_parent_folder>N</create_parent_folder>

<logging_remote_work>N</logging_remote_work>

<parameters>          <pass_all_parameters>Y</pass_all_parameters>

    <parameter>              <name>ID_FONTE_DADOS</name>

    <stream_name/>

    <value/>

    </parameter>              <parameter>
<name>DIRETORIO_FONTE</name>

    <stream_name/>

    <value/>
```

```xml
          </parameter>            <parameter>
<name>FORMATO_ARQUIVO</name>

            <stream_name/>

            <value/>

          </parameter>        </parameters>        <parallel>N</parallel>

      <draw>Y</draw>

      <nr>0</nr>

      <xloc>512</xloc>

      <yloc>256</yloc>

      </entry>

  </entries>

  <hops>

    <hop>

      <from>CriarEstruturaTabela</from>

      <to>ListarArquivosParaCarga</to>

      <from_nr>0</from_nr>

      <to_nr>0</to_nr>

      <enabled>Y</enabled>

      <evaluation>Y</evaluation>

      <unconditional>N</unconditional>

    </hop>

    <hop>

      <from>ListarArquivosParaCarga</from>

      <to>CargaFonteDados</to>
```

```xml
      <from_nr>0</from_nr>

      <to_nr>0</to_nr>

      <enabled>Y</enabled>

      <evaluation>Y</evaluation>

      <unconditional>N</unconditional>

  </hop>

  <hop>

      <from>ListarArquivosParaEstrutura</from>

      <to>VariavelTransformation</to>

      <from_nr>0</from_nr>

      <to_nr>0</to_nr>

      <enabled>Y</enabled>

      <evaluation>Y</evaluation>

      <unconditional>N</unconditional>

  </hop>

  <hop>

      <from>VariavelTransformation</from>

      <to>CriarEstruturaTabela</to>

      <from_nr>0</from_nr>

      <to_nr>0</to_nr>

      <enabled>Y</enabled>

      <evaluation>Y</evaluation>

      <unconditional>N</unconditional>
```

```xml
  </hop>

  <hop>

    <from>START</from>

    <to>Limpar vari&#xe1;veis</to>

    <from_nr>0</from_nr>

    <to_nr>0</to_nr>

    <enabled>N</enabled>

    <evaluation>Y</evaluation>

    <unconditional>Y</unconditional>

  </hop>

  <hop>

    <from>Limpar vari&#xe1;veis</from>

    <to>Inicializar Variaveis</to>

    <from_nr>0</from_nr>

    <to_nr>0</to_nr>

    <enabled>Y</enabled>

    <evaluation>Y</evaluation>

    <unconditional>N</unconditional>

  </hop>

  <hop>

    <from>Comandos SQL customizados</from>

    <to>Success</to>

    <from_nr>0</from_nr>
```

```xml
    <to_nr>0</to_nr>

    <enabled>Y</enabled>

    <evaluation>Y</evaluation>

    <unconditional>N</unconditional>

  </hop>

  <hop>

    <from>CargaFonteDados</from>

    <to>GravarDataAtualizacao</to>

    <from_nr>0</from_nr>

    <to_nr>0</to_nr>

    <enabled>Y</enabled>

    <evaluation>Y</evaluation>

    <unconditional>N</unconditional>

  </hop>

  <hop>

    <from>GravarDataAtualizacao</from>

    <to>Comandos SQL customizados</to>

    <from_nr>0</from_nr>

    <to_nr>0</to_nr>

    <enabled>Y</enabled>

    <evaluation>Y</evaluation>

    <unconditional>N</unconditional>

  </hop>
```

```xml
<hop>

    <from>START</from>

    <to>Definir vari&#xe1;veis</to>

    <from_nr>0</from_nr>

    <to_nr>0</to_nr>

    <enabled>Y</enabled>

    <evaluation>Y</evaluation>

    <unconditional>Y</unconditional>

</hop>

<hop>

    <from>Definir vari&#xe1;veis</from>

    <to>ListarArquivosParaEstrutura</to>

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    <to_nr>0</to_nr>

    <enabled>Y</enabled>

    <evaluation>Y</evaluation>

    <unconditional>N</unconditional>

</hop>

<hop>

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    <to>Definir vari&#xe1;veis</to>

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    <to_nr>0</to_nr>
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        <to_nr>0</to_nr>

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        <evaluation>Y</evaluation>

        <unconditional>N</unconditional>

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    </hops>

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        <note>TIPO_ARQUIVO&#xd;&#xa;&#x3e; Qual &#xe9; o formato de arquivo da
carga&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;1 - Arquivo Texto com
cabe&#xe7;alho&#xd;&#xa;2 - Excel&#xd;&#xa;3 - DBF&#xd;&#xa;&#xd;&#xa;-----
&#xd;&#xa;&#xd;&#xa;DATA_INICIO E DATA_FIM&#xd;&#xa;&#x3e; Data do in&#xed;cio e
fim do per&#xed;odo de carga dos
arquivos&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;Data no formato
AAAAMMDD&#xd;&#xa;&#xd;&#xa;-----&#xd;&#xa;&#xd;&#xa;DELIMITADOR&#xd;&#xa;&#x3e;
Caractere usado para separar os campos em arquivos
texto&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;Um caractere&#xd;&#xa;&#xd;&#xa;---
--&#xd;&#xa;&#xd;&#xa;DIRETORIO_FONTE&#xd;&#xa;&#x3e; Diretorio onde se encontram
os arquivos fonte&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;Caminho inteiro da
pasta na m&#xe1;quina.
&#xd;&#xa;&#xd;&#xa;Observa&#xe7;&#xf5;es&#x3a;&#xd;&#xa;&#xd;&#xa;&#xc9; necess&#xe1;rio
```

```
que o usu&#xe1;rio configurado no servi&#xe7;o &#xd;&#xa;do apache tenha acesso
de leitura ao diret&#xf3;rio.&#xd;&#xa;&#xd;&#xa;-----
&#xd;&#xa;&#xd;&#xa;FORMATO_ARQUIVO&#xd;&#xa;&#x3e; Formato do nome dos
arquivos&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;Formato do nome dos arquivos com
&#xd;&#xa;coringa de data identificando &#xd;&#xa;ano &#x28;AAAA&#x29;, m&#xea;s
&#x28;MM&#x29; e dia &#x28;DD&#x29;&#xd;&#xa;&#xd;&#xa;-----
&#xd;&#xa;&#xd;&#xa;NOME_TABELA&#xd;&#xa;&#x3e; Nome da tabela a ser criada no
banco de dados&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;Nome amig&#xe1;vel da base
sem acentos e com &#xd;&#xa;espa&#xe7;os trocados por underline
&#x28;_&#x29;&#xd;&#xa;&#xd;&#xa;-----&#xd;&#xa;&#xd;&#xa;COLUNA_NUMERICA_XX
&#xd;&#xa;&#x28;XX - n&#xfa;mero at&#xe9; 15&#x29;&#xd;&#xa;&#x3e; Colunas
num&#xe9;ricas&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;Nome da
coluna&#xd;&#xa;&#xd;&#xa;-----&#xd;&#xa;&#xd;&#xa;COLUNA_DATA_XX
&#xd;&#xa;&#x28;XX - n&#xfa;mero at&#xe9; 15&#x29;&#xd;&#xa;&#x3e; Colunas de
data dos dados, &#xd;&#xa;usadas para realizar
filtros&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;Nome da
coluna&#xd;&#xa;&#xd;&#xa;-----&#xd;&#xa;&#xd;&#xa;FORMATO_COLUNA_DATA_XX
&#xd;&#xa;&#x28;XX - n&#xfa;mero at&#xe9; 15&#x29;&#xd;&#xa;&#x3e; Formato das
colunas de data&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;Formato do nome dos
arquivos com &#xd;&#xa;coringa de data identificando &#xd;&#xa;ano
&#x28;AAAA&#x29;, m&#xea;s &#x28;MM&#x29; e dia
&#x28;DD&#x29;&#xd;&#xa;&#xd;&#xa;-----
&#xd;&#xa;&#xd;&#xa;LINHA_CABECALHO&#xd;&#xa;&#x3e; Em qual linha est&#xe1;
&#xd;&#xa;localizado o cabe&#xe7;alho do
arquivo&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;Num&#xe9;rico somente se
necess&#xe1;rio, n&#xe3;o &#xe9; &#xd;&#xa;necess&#xe1;rio passar 0</note>

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        <fontname>Segoe UI</fontname>

        <fontsize>9</fontsize>

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        <fontitalic>N</fontitalic>

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        <fontcolorgreen>0</fontcolorgreen>
```

```
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        <backgroundcolorblue>213</backgroundcolorblue>

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        <bordercolorblue>100</bordercolorblue>

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    <notepad>

        <note>Par&#xe2;metros de entrada</note>

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        <heigth>32</heigth>

        <fontname>Segoe UI</fontname>

        <fontsize>12</fontsize>

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        <fontitalic>N</fontitalic>

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        <fontcolorgreen>255</fontcolorgreen>

        <fontcolorblue>255</fontcolorblue>

        <backgroundcolorred>7</backgroundcolorred>
```

```xml
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        <bordercolorblue>100</bordercolorblue>

        <drawshadow>Y</drawshadow>

    </notepad>

    <notepad>

        <note>SQL_CREATE_TABLE&#xd;&#xa;&#x3e; String usada internamente para criar
o comando que cria a tabela&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;Comando
create table com o nome &#x24;&#x7b;NOME_TABELA&#x7d;&#xd;&#xa;&#xd;&#xa;-----
&#xd;&#xa;&#xd;&#xa;ESTRUTURA_STREAM_BD_IDENTICA&#xd;&#xa;&#x3e; true se a
estrutura do BD e Stream forem
id&#xea;nticas&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;true ou
false&#xd;&#xa;&#xd;&#xa;-----
&#xd;&#xa;&#xd;&#xa;TRANS_CARGA_ESTRUTURA&#xd;&#xa;&#x3e;Nome da transformation
de carga de estrutura do
repositorio&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;InputEstruturaXls&#xd;&#xa;In
putEstruturaXlsx&#xd;&#xa;InputEstruturaTexto&#xd;&#xa;InputEstruturaDbf&#xd;&#xa
;&#xd;&#xa;-----&#xd;&#xa;&#xd;&#xa;TRANS_CARGA_DADOS&#xd;&#xa;&#x3e; Nome da
transformation de carga de dados do repositorio
&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;InputCargaXls&#xd;&#xa;InputCargaXlsx&#x
d;&#xa;InputCargaTexto&#xd;&#xa;InputCargaDbf</note>

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        <fontname>Segoe UI</fontname>

        <fontsize>9</fontsize>

        <fontbold>N</fontbold>
```

```xml
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        <fontcolorgreen>0</fontcolorgreen>

        <fontcolorblue>0</fontcolorblue>

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</notepad>

<notepad>

    <note>Vari&#xe1;veis internas</note>

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    <fontname>Segoe UI</fontname>

    <fontsize>12</fontsize>

    <fontbold>Y</fontbold>

    <fontitalic>N</fontitalic>

    <fontcolorred>255</fontcolorred>
```

```xml
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            <fontcolorblue>255</fontcolorblue>

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        </notepad>

        <notepad>

            <note>A localiza&#xe7;&#xe3;o do arquivo de configura&#xe7;&#xe3;o de
reposit&#xf3;rios &#xd;&#xa;&#x28;repositories.xml&#x29; &#xe9; definida
atrav&#xe9;s da vari&#xe1;vel de ambiente&#x3a;&#xd;&#xa;KETTLE_REPOSITORY
&#x28;padr&#xe3;o&#x3a;
C&#x3a;&#x5c;Pentaho&#x5c;Configuracao&#x29;&#xd;&#xa;&#xd;&#xa;A
localiza&#xe7;&#xe3;o do arquivo de vari&#xe1;veis globais
&#x28;kettle.properties&#x29;&#xd;&#xa; &#xe9; definida atrav&#xe9;s da
vari&#xe1;vel de ambiente&#x3a;&#xd;&#xa;KETTLE_HOME &#x28;padr&#xe3;o&#x3a;
C&#x3a;&#x5c;Pentaho&#x5c;Configuracao&#x29;&#xd;&#xa;&#xd;&#xa;Vari&#xe1;veis
contidas dentro do arquivo
Kettle.properties&#x3a;&#xd;&#xa;&#xd;&#xa;SCHEMA_FONTE_DADOS&#xd;&#xa;&#x3e; Em
qual schema ser&#xe3;o criadas as tabelas
importadas&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;Nome do
schema&#xd;&#xa;&#xd;&#xa;----&#xd;&#xa;&#xd;&#xa;SCHEMA_SISTEMA&#xd;&#xa;&#x3e;
Em qual schema est&#xe3;o as tabelas de sistema e
log&#xd;&#xa;&#xd;&#xa;Valor&#x3a;&#xd;&#xa;Nome do schema&#xd;&#xa;&#xd;&#xa;---
--&#xd;&#xa;&#xd;&#xa; MONITORAMENTO_PDE_HOST &#x3d; localhost&#xd;&#xa;
MONITORAMENTO_PDE_BANCO &#x3d; MonitoramentoPDE&#xd;&#xa; MONITORAMENTO_PDE_PORTA
&#x3d; 5432&#xd;&#xa; MONITORAMENTO_PDE_USUARIO &#x3d; postgres&#xd;&#xa;
MONITORAMENTO_PDE_SENHA &#x3d; kofphxxn1989&#xd;&#xa;&#x3e; Par&#xe2;metros de
conex&#xe3;o ao banco de dados&#xd;&#xa;</note>

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```

```xml
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      <fontitalic>N</fontitalic>

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      <note>Configura&#xe7;&#xe3;o Kettle</note>

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```

```
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        <fontname>Segoe UI</fontname>

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        <fontitalic>N</fontitalic>

        <fontcolorred>255</fontcolorred>

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existir</note>

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```

```xml
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        <fontcolorblue>0</fontcolorblue>

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        <backgroundcolorgreen>205</backgroundcolorgreen>

        <backgroundcolorblue>112</backgroundcolorblue>

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    <notepad>

        <note>nome do arquivo n&#xe3;o pode conter AA, MM ou DD</note>

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        <fontsize>-1</fontsize>
```

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        </notepads>



    </job>
```

CargaArquivoDados.ktr

```
<tr
ans
for
mat
ion
>
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                <description/>
```

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        <parameters>

        </parameters>

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<table/>

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<timeout_days/>

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><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><i
d>STATUS</id><enabled>Y</enabled><name>STATUS</name></field><field><id>LINES_R
EAD</id><enabled>Y</enabled><name>LINES_READ</name><subject/></field><field><i
d>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name><subject/></
field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</na
me><subject/></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINE
S_INPUT</name><subject/></field><field><id>LINES_OUTPUT</id><enabled>Y</enable
d><name>LINES_OUTPUT</name><subject/></field><field><id>LINES_REJECTED</id><en
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S</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>STARTDATE</id>
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led>Y</enabled><name>ENDDATE</name></field><field><id>LOGDATE</id><enabled>Y</
enabled><name>LOGDATE</name></field><field><id>DEPDATE</id><enabled>Y</enabled
><name>DEPDATE</name></field><field><id>REPLAYDATE</id><enabled>Y</enabled><na
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ame></field><field><id>METRICS_VALUE</id><enabled>Y</enabled><name
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    <feedback_size>50000</feedback_size>

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mit>

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    </dependencies>

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    <clusterschemas>

    </clusterschemas>

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  <modified_user>-</modified_user>

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<key_for_session_key>H4sIAAAAAAAAAMAAAAAAAAAAA&#x3d;</key_for_session_key>

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  </info>

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  </notepads>

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<password>&#x24;&#x7b;MONITORAMENTO_PDE_SENHA&#x7d;</password>

<servername/>

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<index_tablespace/>

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RTA&#x7d;</attribute></attribute>

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ttribute>

<attribute><code>QUOTE_ALL_FIELDS</code><attribute>N</attribute></attribute>

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tribute>

<attribute><code>SUPPORTS_TIMESTAMP_DATA_TYPE</code><attribute>Y</attribute></
attribute>

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    </attributes>
```

```xml
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    <order>

    <hop> <from>Duplicar coluna de campos da tabela</from><to>Une data do
arquivo aos campos do excel</to><enabled>Y</enabled> </hop>

    <hop> <from>Criar metadados de datas gen&#xe9;ricas</from><to>Une data do
arquivo aos campos do excel</to><enabled>Y</enabled> </hop>

    <hop> <from>Obter nome dos arquivos para carga</from><to>Injetar metadados
das colunas no input excel e output tabela</to><enabled>Y</enabled> </hop>

    <hop> <from>Obter nome dos arquivos para
estrutura</from><to>ObterEstruturaArquivo</to><enabled>Y</enabled> </hop>

    <hop> <from>Obter vari&#xe1;veis colunas data</from><to>Normalizar colunas
de data</to><enabled>N</enabled> </hop>

    <hop> <from>Ordenar todas colunas pelo nome</from><to>Filtrar colunas
v&#xe1;lidas</to><enabled>Y</enabled> </hop>

    <hop> <from>Ordenar colunas especiais pelo nome</from><to>Filtrar colunas
v&#xe1;lidas</to><enabled>Y</enabled> </hop>

    <hop> <from>Filtrar colunas v&#xe1;lidas</from><to>Formato da data em
formato americano</to><enabled>Y</enabled> </hop>

    <hop> <from>Obter vari&#xe1;veis colunas num&#xe9;ricas</from><to>Normalizar
colunas num&#xe9;ricas</to><enabled>N</enabled> </hop>

    <hop> <from>Obter vari&#xe1;veis colunas inteiro</from><to>Normalizar
colunas inteiro</to><enabled>N</enabled> </hop>

    <hop> <from>Normalizar colunas inteiro</from><to>Adicionar tipo
inteiro</to><enabled>N</enabled> </hop>

    <hop> <from>Normalizar colunas num&#xe9;ricas</from><to>Adicionar tipo
num&#xe9;rico</to><enabled>N</enabled> </hop>

    <hop> <from>Normalizar colunas de data</from><to>Adicionar tipo
data</to><enabled>N</enabled> </hop>

    <hop> <from>Adicionar tipo inteiro</from><to>Juntar colunas
1</to><enabled>N</enabled> </hop>
```

```xml
<hop> <from>Adicionar tipo num&#xe9;rico</from><to>Juntar colunas
1</to><enabled>N</enabled> </hop>

<hop> <from>Adicionar tipo data</from><to>Juntar colunas
2</to><enabled>N</enabled> </hop>

<hop> <from>Juntar colunas 1</from><to>Juntar colunas
2</to><enabled>N</enabled> </hop>

<hop> <from>Juntar colunas 2</from><to>Ordenar colunas especiais pelo
nome</to><enabled>N</enabled> </hop>

<hop> <from>ObterEstruturaArquivo</from><to>Duplicar coluna de campos da
tabela</to><enabled>Y</enabled> </hop>

<hop> <from>Une data do arquivo aos campos do excel</from><to>Ordenar todas
colunas pelo nome</to><enabled>Y</enabled> </hop>

<hop> <from>Retirar campos de data padr&#xe3;o</from><to>Injetar metadados
das colunas no input excel e output tabela</to><enabled>Y</enabled> </hop>

<hop> <from>Formato da data em formato americano</from><to>Ordenar todas
colunas pelo indice campo</to><enabled>Y</enabled> </hop>

<hop> <from>Ordenar todas colunas pelo indice campo</from><to>Retirar campos
de data padr&#xe3;o</to><enabled>Y</enabled> </hop>

<hop> <from>Ordenar todas colunas pelo indice campo</from><to>Injetar
metadados das colunas no input excel e output tabela</to><enabled>Y</enabled>
</hop>

<hop> <from>Obter colunas especiais</from><to>Ordenar colunas especiais pelo
nome</to><enabled>Y</enabled> </hop>

</order>

<step>

  <name>Adicionar tipo data</name>

  <type>Constant</type>

  <description/>

  <distribute>Y</distribute>
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```xml
<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<fields>

  <field>

    <name>tipo</name>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <nullif>Date</nullif>

    <length>-1</length>

    <precision>-1</precision>

    <set_empty_string>N</set_empty_string>

  </field>

  <field>

    <name>formato_numero</name>

    <type>String</type>

    <format/>
```

```xml
            <currency/>

            <decimal/>

            <group/>

            <nullif/>

            <length>-1</length>

            <precision>-1</precision>

            <set_empty_string>N</set_empty_string>

        </field>

    </fields>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>704</xloc>

        <yloc>272</yloc>

        <draw>Y</draw>

        </GUI>

    </step>


  <step>

    <name>Adicionar tipo inteiro</name>

    <type>Constant</type>

    <description/>

    <distribute>Y</distribute>
```

```xml
<custom_distribution/>

<copies>1</copies>

    <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

<fields>

  <field>

    <name>formato_data</name>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <nullif/>

    <length>-1</length>

    <precision>-1</precision>

    <set_empty_string>N</set_empty_string>

  </field>

  <field>

    <name>tipo</name>

    <type>String</type>

    <format/>
```

```xml
        <currency/>

        <decimal/>

        <group/>

        <nullif>Integer</nullif>

        <length>-1</length>

        <precision>-1</precision>

        <set_empty_string>N</set_empty_string>

      </field>

      <field>

        <name>formato_numero</name>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif>&#x23;.&#x23;</nullif>

        <length>-1</length>

        <precision>-1</precision>

        <set_empty_string>N</set_empty_string>

      </field>

    </fields>

    <cluster_schema/>

 <remotesteps>   <input>   </input>    <output>   </output> </remotesteps>
<GUI>
```

```
            <xloc>1072</xloc>

            <yloc>176</yloc>

            <draw>Y</draw>

          </GUI>

      </step>


  <step>

    <name>Adicionar tipo num&#xe9;rico</name>

    <type>Constant</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>

          </partitioning>

    <fields>

      <field>

        <name>formato_data</name>

        <type>String</type>

        <format/>

        <currency/>
```

```xml
      <decimal/>

      <group/>

      <nullif/>

      <length>-1</length>

      <precision>-1</precision>

      <set_empty_string>N</set_empty_string>

  </field>

  <field>

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      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif>Number</nullif>

      <length>-1</length>

      <precision>-1</precision>

      <set_empty_string>N</set_empty_string>

  </field>

  <field>

      <name>formato_numero</name>

      <type>String</type>

      <format/>
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```xml
            <currency/>

            <decimal/>

            <group/>

            <nullif>&#x23;.&#x23;</nullif>

            <length>-1</length>

            <precision>-1</precision>

            <set_empty_string>N</set_empty_string>

          </field>

      </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>896</xloc>

        <yloc>176</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Criar metadados de datas gen&#xe9;ricas</name>

      <type>DataGrid</type>

      <description/>

      <distribute>Y</distribute>
```

```xml
<custom_distribution/>

<copies>1</copies>

    <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

<fields>

  <field>

      <name>NomeCampo</name>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <set_empty_string>N</set_empty_string>

    </field>

  <field>

      <name>NomeCampoStream</name>

      <type>String</type>

      <format/>

      <currency/>
```

```xml
        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <set_empty_string>N</set_empty_string>

    </field>

    <field>

        <name>NomeCampoOriginal</name>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <set_empty_string>N</set_empty_string>

    </field>

    <field>

        <name>IndiceCampo</name>

        <type>Integer</type>

        <format/>

        <currency/>

        <decimal/>
```

```xml
        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <set_empty_string>N</set_empty_string>

      </field>

    </fields>

    <data>

      <line>
<item>data_referencia</item><item>DataArquivo</item><item/><item>999</item>
</line>

      <line>
<item>data_carga</item><item>data_carga</item><item/><item>1000</item> </line>

    </data>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>128</xloc>

      <yloc>576</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Duplicar coluna de campos da tabela</name>

    <type>SelectValues</type>
```

```xml
<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>
<fields>      <field>          <name>NomeCampo</name>

    <rename/>

    <length>-2</length>

    <precision>-2</precision>

  </field>      <field>          <name>NomeCampoOriginal</name>

    <rename>NomeCampoStream</rename>

    <length>-2</length>

    <precision>-2</precision>

  </field>      <field>          <name>NomeCampoOriginal</name>

    <rename/>

    <length>-2</length>

    <precision>-2</precision>

  </field>      <field>          <name>IndiceCampo</name>

    <rename/>

    <length>-2</length>
```

```xml
            <precision>-2</precision>

        </field>          <select_unspecified>N</select_unspecified>

    </fields>        <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>128</xloc>

        <yloc>368</yloc>

        <draw>Y</draw>

        </GUI>

    </step>



  <step>

    <name>Filtrar colunas v&#xe1;lidas</name>

    <type>MergeJoin</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

<join_type>LEFT OUTER</join_type>

<step1>Ordenar todas colunas pelo nome</step1>
```

```xml
<step2>Ordenar colunas especiais pelo nome</step2>

    <keys_1>

      <key>NomeCampo</key>

    </keys_1>

    <keys_2>

      <key>coluna</key>

    </keys_2>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>512</xloc>

      <yloc>464</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Formato da data em formato americano</name>

    <type>ReplaceString</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>
```

```xml
      <partitioning>

        <method>none</method>

        <schema_name/>

      </partitioning>

  <fields>

    <field>

      <in_stream_name>formato_data</in_stream_name>

      <out_stream_name/>

      <use_regex>no</use_regex>

      <replace_string>A</replace_string>

      <replace_by_string>y</replace_by_string>

      <set_empty_string>N</set_empty_string>

      <replace_field_by_string/>

      <whole_word>no</whole_word>

      <case_sensitive>no</case_sensitive>

    </field>

    <field>

      <in_stream_name>formato_data</in_stream_name>

      <out_stream_name/>

      <use_regex>no</use_regex>

      <replace_string>M</replace_string>

      <replace_by_string>M</replace_by_string>

      <set_empty_string>N</set_empty_string>
```

```xml
          <replace_field_by_string/>

          <whole_word>no</whole_word>

          <case_sensitive>no</case_sensitive>

        </field>

        <field>

          <in_stream_name>formato_data</in_stream_name>

          <out_stream_name/>

          <use_regex>no</use_regex>

          <replace_string>D</replace_string>

          <replace_by_string>d</replace_by_string>

          <set_empty_string>N</set_empty_string>

          <replace_field_by_string/>

          <whole_word>no</whole_word>

          <case_sensitive>no</case_sensitive>

        </field>

      </fields>

       <cluster_schema/>

  <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>512</xloc>

        <yloc>544</yloc>

        <draw>Y</draw>

        </GUI>

      </step>
```

```xml
<step>

  <name>Injetar metadados das colunas no input excel e output tabela</name>

  <type>MetaInject</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

  <specification_method>rep_name</specification_method>

  <trans_object_id/>

  <trans_name>InputDadosXlsx</trans_name>

  <filename/>

  <directory_path>&#x2f;</directory_path>

  <source_step/>

  <source_output_fields>    </source_output_fields>    <target_file/>

  <no_execution>N</no_execution>

  <stream_source_step/>

  <stream_target_step/>

  <mappings>      <mapping>          <target_step_name>Formatar colunas
```

especiais</target_step_name>

                        <target_attribute_key>META_CONVERSION_MASK</target_attribute_key>

                        <target_detail>Y</target_detail>

                        <source_step>Retirar campos de data padrão</source_step>

                        <source_field>formato_data</source_field>

        </mapping>   <mapping>   <target_step_name>Formatar colunas especiais</target_step_name>

                        <target_attribute_key>META_TYPE</target_attribute_key>

                        <target_detail>Y</target_detail>

                        <source_step>Retirar campos de data padrão</source_step>

                        <source_field>tipo</source_field>

        </mapping>   <mapping>   <target_step_name>Formatar colunas especiais</target_step_name>

                        <target_attribute_key>META_NAME</target_attribute_key>

                        <target_detail>Y</target_detail>

                        <source_step>Retirar campos de data padrão</source_step>

                        <source_field>NomeCampoOriginal</source_field>

        </mapping>   <mapping>   <target_step_name>Input Arquivo</target_step_name>

                        <target_attribute_key>FORMAT</target_attribute_key>

                        <target_detail>Y</target_detail>

                        <source_step>Retirar campos de data padrão</source_step>

                        <source_field>formato_numero</source_field>

        </mapping>   <mapping>   <target_step_name>Carga da tabela</target_step_name>

            <target_detail>Y</target_detail>

            <source_step>Ordenar todas colunas pelo indice campo</source_step>

            <source_field>NomeCampo</source_field>

        </mapping>   <mapping>   <target_step_name>Input
Arquivo</target_step_name>

            <target_attribute_key>NAME</target_attribute_key>

            <target_detail>Y</target_detail>

            <source_step>Retirar campos de data padrão</source_step>

            <source_field>NomeCampoOriginal</source_field>

        </mapping>   <mapping>   <target_step_name>Carga da
tabela</target_step_name>

            <target_attribute_key>STREAM_FIELDNAME</target_attribute_key>

            <target_detail>Y</target_detail>

            <source_step>Ordenar todas colunas pelo indice campo</source_step>

            <source_field>NomeCampoStream</source_field>

        </mapping>   <mapping>   <target_step_name>Input
Arquivo</target_step_name>

            <target_attribute_key>FILENAME</target_attribute_key>

            <target_detail>Y</target_detail>

            <source_step>Obter nome dos arquivos para carga</source_step>

            <source_field>filename</source_field>

        </mapping>   </mappings>   <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

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        <yloc>736</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


  <step>

      <name>Juntar colunas 1</name>

      <type>Append</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>

            </partitioning>

<head_name>Adicionar tipo inteiro</head_name>

<tail_name>Adicionar tipo num&#xe9;rico</tail_name>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>1072</xloc>

      <yloc>272</yloc>
```

```xml
        <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Juntar colunas 2</name>

    <type>Append</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

<head_name>Adicionar tipo data</head_name>

<tail_name>Juntar colunas 1</tail_name>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>896</xloc>

      <yloc>272</yloc>

      <draw>Y</draw>
```

```xml
      </GUI>

  </step>


<step>

  <name>Normalizar colunas de data</name>

  <type>Normaliser</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

  <typefield>id</typefield>

  <fields>      <field>          <name>COLUNA_DATA_1</name>

      <value>1</value>

      <norm>coluna</norm>

      </field>      <field>          <name>COLUNA_DATA_2</name>

      <value>2</value>

      <norm>coluna</norm>

      </field>      <field>          <name>COLUNA_DATA_3</name>

      <value>3</value>
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<norm>coluna</norm>

</field>   <field>   <name>COLUNA_DATA_4</name>

<value>4</value>

<norm>coluna</norm>

</field>   <field>   <name>COLUNA_DATA_5</name>

<value>5</value>

<norm>coluna</norm>

</field>   <field>   <name>COLUNA_DATA_6</name>

<value>6</value>

<norm>coluna</norm>

</field>   <field>   <name>COLUNA_DATA_7</name>

<value>7</value>

<norm>coluna</norm>

</field>   <field>   <name>COLUNA_DATA_8</name>

<value>8</value>

<norm>coluna</norm>

</field>   <field>   <name>COLUNA_DATA_9</name>

<value>9</value>

<norm>coluna</norm>

</field>   <field>   <name>COLUNA_DATA_10</name>

<value>10</value>

<norm>coluna</norm>

</field>   <field>   FORMATO_COLUNA_DATA_1

<norm>formato_data</norm>

</field>   <field>   <name>FORMATO_COLUNA_DATA_2</name>

<value>2</value>

<norm>formato_data</norm>

</field>   <field>   <name>FORMATO_COLUNA_DATA_3</name>

<value>3</value>

<norm>formato_data</norm>

</field>   <field>   <name>FORMATO_COLUNA_DATA_4</name>

<value>4</value>

<norm>formato_data</norm>

</field>   <field>   <name>FORMATO_COLUNA_DATA_5</name>

<value>5</value>

<norm>formato_data</norm>

</field>   <field>   <name>FORMATO_COLUNA_DATA_6</name>

<value>6</value>

<norm>formato_data</norm>

</field>   <field>   <name>FORMATO_COLUNA_DATA_7</name>

<value>7</value>

<norm>formato_data</norm>

</field>   <field>   <name>FORMATO_COLUNA_DATA_8</name>

<value>8</value>

```xml
        </field>        <field>          <name>FORMATO_COLUNA_DATA_9</name>

        <value>9</value>

        <norm>formato_data</norm>

        </field>        <field>          <name>FORMATO_COLUNA_DATA_10</name>

        <value>10</value>

        <norm>formato_data</norm>

        </field>        </fields>        <cluster_schema/>

  <remotesteps>    <input>    </input>    <output>    </output>  </remotesteps>
<GUI>

      <xloc>704</xloc>

      <yloc>176</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Normalizar colunas inteiro</name>

    <type>Normaliser</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>
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```xml
        <schema_name/>

      </partitioning>

  <typefield>id</typefield>

  <fields>      <field>           <name>COLUNA_INTEIRO_1</name>

      <value>21</value>

      <norm>coluna</norm>

      </field>      <field>           <name>COLUNA_INTEIRO_2</name>

      <value>22</value>

      <norm>coluna</norm>

      </field>      <field>           <name>COLUNA_INTEIRO_3</name>

      <value>23</value>

      <norm>coluna</norm>

      </field>      <field>           <name>COLUNA_INTEIRO_4</name>

      <value>24</value>

      <norm>coluna</norm>

      </field>      <field>           <name>COLUNA_INTEIRO_5</name>

      <value>25</value>

      <norm>coluna</norm>

      </field>      <field>           <name>COLUNA_INTEIRO_6</name>

      <value>26</value>

      <norm>coluna</norm>

      </field>      <field>           <name>COLUNA_INTEIRO_7</name>

      <value>27</value>
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<norm>coluna</norm>

</field>      <field>        <name>COLUNA_INTEIRO_8</name>

<value>28</value>

<norm>coluna</norm>

</field>      <field>        <name>COLUNA_INTEIRO_9</name>

<value>29</value>

<norm>coluna</norm>

</field>      <field>        <name>COLUNA_INTEIRO_10</name>

<value>30</value>

<norm>coluna</norm>

</field>      </fields>      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

<xloc>1072</xloc>

<yloc>96</yloc>

<draw>Y</draw>

</GUI>

</step>


<step>

<name>Normalizar colunas num&#xe9;ricas</name>

<type>Normaliser</type>

<description/>
```

```xml
<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<typefield>id</typefield>

<fields>    <field>        <name>COLUNA_NUMERICA_1</name>

    <value>11</value>

    <norm>coluna</norm>

    </field>    <field>        <name>COLUNA_NUMERICA_2</name>

    <value>12</value>

    <norm>coluna</norm>

    </field>    <field>        <name>COLUNA_NUMERICA_3</name>

    <value>13</value>

    <norm>coluna</norm>

    </field>    <field>        <name>COLUNA_NUMERICA_4</name>

    <value>14</value>

    <norm>coluna</norm>

    </field>    <field>        <name>COLUNA_NUMERICA_5</name>

    <value>15</value>

    <norm>coluna</norm>
```

</field>   <field>   <name>COLUNA_NUMERICA_6</name>

<value>16</value>

<norm>coluna</norm>

</field>   <field>   <name>COLUNA_NUMERICA_7</name>

<value>17</value>

<norm>coluna</norm>

</field>   <field>   <name>COLUNA_NUMERICA_8</name>

<value>18</value>

<norm>coluna</norm>

</field>   <field>   <name>COLUNA_NUMERICA_9</name>

<value>19</value>

<norm>coluna</norm>

</field>   <field>   <name>COLUNA_NUMERICA_10</name>

<value>20</value>

<norm>coluna</norm>

</field>   </fields>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

<xloc>896</xloc>

<yloc>96</yloc>

<draw>Y</draw>

</GUI>

</step>

```xml
<step>

  <name>Obter colunas especiais</name>

  <type>TableInput</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

      </partitioning>

  <connection>MonitoramentoPDE_PostgreSQL</connection>

  <sql>SELECT &#xd;&#xa;case tipo when &#x27;data&#x27; then null else &#x27;&#x23;.&#x23;&#x27; end as formato_numero&#xd;&#xa;,formato as formato_data&#xd;&#xa;,case tipo when &#x27;data&#x27; then &#x27;Date&#x27;&#xd;&#xa;                   when &#x27;inteiro&#x27; then &#x27;Integer&#x27;&#xd;&#xa;                       when &#x27;territorio&#x27; then &#x27;Integer&#x27;&#xd;&#xa;                   when &#x27;numerica&#x27; then &#x27;Number&#x27; end as tipo&#xd;&#xa;,nome as coluna&#xd;&#xa;FROM sistema.coluna&#xd;&#xa;WHERE id_fonte_dados &#x3d; &#x24;&#x7b;ID_FONTE_DADOS&#x7d;</sql>

  <limit>0</limit>

  <lookup/>

  <execute_each_row>N</execute_each_row>

  <variables_active>Y</variables_active>

  <lazy_conversion_active>N</lazy_conversion_active>

   <cluster_schema/>
```

```xml
<remotesteps>    <input>    </input>    <output>    </output> </remotesteps>
<GUI>

        <xloc>512</xloc>

        <yloc>256</yloc>

        <draw>Y</draw>

        </GUI>

    </step>


  <step>

    <name>Obter nome dos arquivos para carga</name>

    <type>RowsFromResult</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

    <fields>      <field>          <name>short_filename</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>
```

```xml
    </field>      </fields>      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>512</xloc>

    <yloc>816</yloc>

    <draw>Y</draw>

    </GUI>

  </step>


  <step>

    <name>Obter nome dos arquivos para estrutura</name>

    <type>RowsFromResult</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

    <fields>      <field>          <name>filename</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>
```

```xml
        </field>       </fields>       <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>128</xloc>

      <yloc>192</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Obter vari&#xe1;veis colunas data</name>

    <type>GetVariable</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

    <fields>

      <field>

        <name>COLUNA_DATA_1</name>
```

```
            <variable>&#x24;&#x7b;COLUNA_DATA_1&#x7d;</variable>

            <type>String</type>

            <format/>

            <currency/>

            <decimal/>

            <group/>

            <length>-1</length>

            <precision>-1</precision>

            <trim_type>none</trim_type>

        </field>

        <field>

            <name>FORMATO_COLUNA_DATA_1</name>

            <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_1&#x7d;</variable>

            <type>String</type>

            <format/>

            <currency/>

            <decimal/>

            <group/>

            <length>-1</length>

            <precision>-1</precision>

            <trim_type>none</trim_type>

        </field>

        <field>
```

```xml
      <name>COLUNA_DATA_2</name>

      <variable>&#x24;&#x7b;COLUNA_DATA_2&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>

    <field>

      <name>FORMATO_COLUNA_DATA_2</name>

      <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_2&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>
```

```xml
<field>

  <name>COLUNA_DATA_3</name>

  <variable>&#x24;&#x7b;COLUNA_DATA_3&#x7d;</variable>

  <type>String</type>

  <format/>

  <currency/>

  <decimal/>

  <group/>

  <length>-1</length>

  <precision>-1</precision>

  <trim_type>none</trim_type>

</field>

<field>

  <name>FORMATO_COLUNA_DATA_3</name>

  <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_3&#x7d;</variable>

  <type>String</type>

  <format/>

  <currency/>

  <decimal/>

  <group/>

  <length>-1</length>

  <precision>-1</precision>

  <trim_type>none</trim_type>
```

```xml
        </field>

        <field>

            <name>COLUNA_DATA_4</name>

            <variable>&#x24;&#x7b;COLUNA_DATA_4&#x7d;</variable>

            <type>String</type>

            <format/>

            <currency/>

            <decimal/>

            <group/>

            <length>-1</length>

            <precision>-1</precision>

            <trim_type>none</trim_type>

        </field>

        <field>

            <name>FORMATO_COLUNA_DATA_4</name>

            <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_4&#x7d;</variable>

            <type>String</type>

            <format/>

            <currency/>

            <decimal/>

            <group/>

            <length>-1</length>

            <precision>-1</precision>
```

```xml
        <trim_type>none</trim_type>

    </field>

    <field>

      <name>COLUNA_DATA_5</name>

      <variable>&#x24;&#x7b;COLUNA_DATA_5&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>

    <field>

      <name>FORMATO_COLUNA_DATA_5</name>

      <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_5&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>
```

```xml
        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_DATA_6</name>

        <variable>&#x24;&#x7b;COLUNA_DATA_6&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>FORMATO_COLUNA_DATA_6</name>

        <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_6&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>
```

```xml
        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

      </field>

      <field>

        <name>COLUNA_DATA_7</name>

        <variable>&#x24;&#x7b;COLUNA_DATA_7&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

      </field>

      <field>

        <name>FORMATO_COLUNA_DATA_7</name>

        <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_7&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>
```

```
        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_DATA_8</name>

        <variable>&#x24;&#x7b;COLUNA_DATA_8&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>FORMATO_COLUNA_DATA_8</name>

        <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_8&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>
```

```xml
      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>

    <field>

      <name>COLUNA_DATA_9</name>

      <variable>&#x24;&#x7b;COLUNA_DATA_9&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>

    <field>

      <name>FORMATO_COLUNA_DATA_9</name>

      <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_9&#x7d;</variable>

      <type>String</type>

      <format/>
```

```xml
        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_DATA_10</name>

        <variable>&#x24;&#x7b;COLUNA_DATA_10&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>FORMATO_COLUNA_DATA_10</name>

        <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_10&#x7d;</variable>

        <type>String</type>
```

```
            <format/>

            <currency/>

            <decimal/>

            <group/>

            <length>-1</length>

            <precision>-1</precision>

            <trim_type>none</trim_type>

          </field>

      </fields>

       <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

          <xloc>704</xloc>

          <yloc>96</yloc>

          <draw>Y</draw>

          </GUI>

      </step>


    <step>

      <name>Obter vari&#xe1;veis colunas inteiro</name>

      <type>GetVariable</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>
```

```xml
<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<fields>

  <field>

    <name>COLUNA_INTEIRO_1</name>

    <variable>&#x24;&#x7b;COLUNA_INTEIRO_1&#x7d;</variable>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

  </field>

  <field>

    <name>COLUNA_INTEIRO_2</name>

    <variable>&#x24;&#x7b;COLUNA_INTEIRO_2&#x7d;</variable>

    <type>String</type>

    <format/>
```

```xml
      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>

    <field>

      <name>COLUNA_INTEIRO_3</name>

      <variable>&#x24;&#x7b;COLUNA_INTEIRO_3&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>

    <field>

      <name>COLUNA_INTEIRO_4</name>

      <variable>&#x24;&#x7b;COLUNA_INTEIRO_4&#x7d;</variable>

      <type>String</type>
```

```xml
      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>

    <field>

      <name>COLUNA_INTEIRO_5</name>

      <variable>&#x24;&#x7b;COLUNA_INTEIRO_5&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>

    <field>

      <name>COLUNA_INTEIRO_6</name>

      <variable>&#x24;&#x7b;COLUNA_INTEIRO_6&#x7d;</variable>
```

```xml
            <type>String</type>

            <format/>

            <currency/>

            <decimal/>

            <group/>

            <length>-1</length>

            <precision>-1</precision>

            <trim_type>none</trim_type>

        </field>

        <field>

            <name>COLUNA_INTEIRO_7</name>

            <variable>&#x24;&#x7b;COLUNA_INTEIRO_7&#x7d;</variable>

            <type>String</type>

            <format/>

            <currency/>

            <decimal/>

            <group/>

            <length>-1</length>

            <precision>-1</precision>

            <trim_type>none</trim_type>

        </field>

        <field>

            <name>COLUNA_INTEIRO_8</name>
```

```xml
        <variable>&#x24;&#x7b;COLUNA_INTEIRO_8&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_INTEIRO_9</name>

        <variable>&#x24;&#x7b;COLUNA_INTEIRO_9&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>
```

```xml
            <name>COLUNA_INTEIRO_10</name>

            <variable>&#x24;&#x7b;COLUNA_INTEIRO_10&#x7d;</variable>

            <type>String</type>

            <format/>

            <currency/>

            <decimal/>

            <group/>

            <length>-1</length>

            <precision>-1</precision>

            <trim_type>none</trim_type>

          </field>

      </fields>

       <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>1072</xloc>

        <yloc>16</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Obter vari&#xe1;veis colunas num&#xe9;ricas</name>
```

```xml
<type>GetVariable</type>

<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<fields>

  <field>

    <name>COLUNA_NUMERICA_1</name>

    <variable>&#x24;&#x7b;COLUNA_NUMERICA_1&#x7d;</variable>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

  </field>

  <field>
```

```xml
      <name>COLUNA_NUMERICA_2</name>

      <variable>&#x24;&#x7b;COLUNA_NUMERICA_2&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>

  <field>

      <name>COLUNA_NUMERICA_3</name>

      <variable>&#x24;&#x7b;COLUNA_NUMERICA_3&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>
```

```xml
<field>

  <name>COLUNA_NUMERICA_4</name>

  <variable>&#x24;&#x7b;COLUNA_NUMERICA_4&#x7d;</variable>

  <type>String</type>

  <format/>

  <currency/>

  <decimal/>

  <group/>

  <length>-1</length>

  <precision>-1</precision>

  <trim_type>none</trim_type>

</field>

<field>

  <name>COLUNA_NUMERICA_5</name>

  <variable>&#x24;&#x7b;COLUNA_NUMERICA_5&#x7d;</variable>

  <type>String</type>

  <format/>

  <currency/>

  <decimal/>

  <group/>

  <length>-1</length>

  <precision>-1</precision>

  <trim_type>none</trim_type>
```

```xml
      </field>

      <field>

         <name>COLUNA_NUMERICA_6</name>

         <variable>&#x24;&#x7b;COLUNA_NUMERICA_6&#x7d;</variable>

         <type>String</type>

         <format/>

         <currency/>

         <decimal/>

         <group/>

         <length>-1</length>

         <precision>-1</precision>

         <trim_type>none</trim_type>

      </field>

      <field>

         <name>COLUNA_NUMERICA_7</name>

         <variable>&#x24;&#x7b;COLUNA_NUMERICA_7&#x7d;</variable>

         <type>String</type>

         <format/>

         <currency/>

         <decimal/>

         <group/>

         <length>-1</length>

         <precision>-1</precision>
```

```xml
        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_NUMERICA_8</name>

        <variable>&#x24;&#x7b;COLUNA_NUMERICA_8&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_NUMERICA_9</name>

        <variable>&#x24;&#x7b;COLUNA_NUMERICA_9&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>
```

```xml
        <precision>-1</precision>

        <trim_type>none</trim_type>

      </field>

      <field>

        <name>COLUNA_NUMERICA_10</name>

        <variable>&#x24;&#x7b;COLUNA_NUMERICA_10&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

      </field>

    </fields>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>896</xloc>

      <yloc>16</yloc>

      <draw>Y</draw>

      </GUI>

    </step>
```

```xml
<step>

  <name>ObterEstruturaArquivo</name>

  <type>TransExecutor</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

    </partitioning>

  <specification_method>rep_name</specification_method>

  <trans_object_id/>

  <trans_name>ObterEstruturaArquivo</trans_name>

  <filename/>

  <directory_path>&#x2f;</directory_path>

  <group_size>1</group_size>

  <group_field/>

  <group_time/>

    <parameters>
<variablemapping><variable>filename</variable><field>filename</field><input/><
/variablemapping>
```

```
<variablemapping><variable>short_filename</variable><field>short_filename</fie
ld><input/></variablemapping>

    <inherit_all_vars>Y</inherit_all_vars>

    </parameters>

    <execution_result_target_step/>

    <execution_time_field>ExecutionTime</execution_time_field>

    <execution_result_field>ExecutionResult</execution_result_field>

    <execution_errors_field>ExecutionNrErrors</execution_errors_field>


<execution_lines_read_field>ExecutionLinesRead</execution_lines_read_field>


<execution_lines_written_field>ExecutionLinesWritten</execution_lines_written_
field>


<execution_lines_input_field>ExecutionLinesInput</execution_lines_input_field>


<execution_lines_output_field>ExecutionLinesOutput</execution_lines_output_fie
ld>


<execution_lines_rejected_field>ExecutionLinesRejected</execution_lines_reject
ed_field>


<execution_lines_updated_field>ExecutionLinesUpdated</execution_lines_updated_
field>


<execution_lines_deleted_field>ExecutionLinesDeleted</execution_lines_deleted_
field>


<execution_files_retrieved_field>ExecutionFilesRetrieved</execution_files_retr
ieved_field>
```

```xml
<execution_exit_status_field>ExecutionExitStatus</execution_exit_status_field>

    <execution_log_text_field>ExecutionLogText</execution_log_text_field>


<execution_log_channelid_field>ExecutionLogChannelId</execution_log_channelid_field>

    <result_rows_target_step>Duplicar coluna de campos da
tabela</result_rows_target_step>

      <result_rows_field><name>NomeCampo</name><type>String</type><length>-1</length><precision>-1</precision></result_rows_field>


<result_rows_field><name>NomeCampoOriginal</name><type>String</type><length>-1</length><precision>-1</precision></result_rows_field>

      <result_rows_field><name>IndiceCampo</name><type>Integer</type><length>-1</length><precision>-1</precision></result_rows_field>

    <result_files_target_step/>

    <result_files_file_name_field>FileName</result_files_file_name_field>

    <executors_output_step/>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>128</xloc>

      <yloc>288</yloc>

      <draw>Y</draw>

      </GUI>

    </step>



  <step>
```

```xml
<name>Ordenar colunas especiais pelo nome</name>

<type>SortRows</type>

<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

  <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

  <prefix>out</prefix>

  <sort_size>1000000</sort_size>

  <free_memory/>

  <compress>N</compress>

  <compress_variable/>

  <unique_rows>N</unique_rows>

<fields>

  <field>

    <name>coluna</name>

    <ascending>Y</ascending>

    <case_sensitive>N</case_sensitive>

    <presorted>N</presorted>
```

```xml
        </field>

      </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>512</xloc>

        <yloc>368</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Ordenar todas colunas pelo indice campo</name>

      <type>SortRows</type>

      <description/>

      <distribute>N</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>

            </partitioning>

      <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

      <prefix>out</prefix>
```

```xml
<sort_size>1000000</sort_size>

<free_memory/>

<compress>N</compress>

<compress_variable/>

<unique_rows>N</unique_rows>

<fields>

<field>

<name>IndiceCampo</name>

<ascending>Y</ascending>

<case_sensitive>N</case_sensitive>

<presorted>N</presorted>

</field>

</fields>

<cluster_schema/>

<remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

<xloc>512</xloc>

<yloc>624</yloc>

<draw>Y</draw>

</GUI>

</step>


<step>
```

```xml
<name>Ordenar todas colunas pelo nome</name>

<type>SortRows</type>

<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

  <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

  <prefix>out</prefix>

  <sort_size>1000000</sort_size>

  <free_memory/>

  <compress>N</compress>

  <compress_variable/>

  <unique_rows>N</unique_rows>

<fields>

  <field>

    <name>NomeCampo</name>

    <ascending>Y</ascending>

    <case_sensitive>N</case_sensitive>

    <presorted>N</presorted>
```

```xml
      </field>

    </fields>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>352</xloc>

      <yloc>464</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Retirar campos de data padr&#xe3;o</name>

    <type>FilterRows</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

<send_true_to>Injetar metadados das colunas no input excel e output
tabela</send_true_to>
```

```xml
<send_false_to/>

  <compare>

<condition>

 <negated>Y</negated>

 <conditions>

  <condition>

   <negated>N</negated>

   <leftvalue>NomeCampo</leftvalue>

   <function>&#x3d;</function>

   <rightvalue/>

<value><name>constant</name><type>String</type><text>data_referencia</text><length>-1</length><precision>-1</precision><isnull>N</isnull><mask/></value>
</condition>

  <condition>

   <negated>N</negated>

   <operator>OR</operator>

   <leftvalue>NomeCampo</leftvalue>

   <function>&#x3d;</function>

   <rightvalue/>

<value><name>constant</name><type>String</type><text>data_carga</text><length>-1</length><precision>-1</precision><isnull>N</isnull><mask/></value>
</condition>

  </conditions>

 </condition>
```

```xml
      </compare>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>304</xloc>

      <yloc>688</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Une data do arquivo aos campos do excel</name>

    <type>Append</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

<head_name>Duplicar coluna de campos da tabela</head_name>

<tail_name>Criar metadados de datas gen&#xe9;ricas</tail_name>

      <cluster_schema/>
```

```
  <remotesteps>  <input>  </input>  <output>  </output> </remotesteps>
<GUI>

        <xloc>128</xloc>

        <yloc>464</yloc>

        <draw>Y</draw>

        </GUI>

      </step>



    <step_error_handling>

    </step_error_handling>

     <slave-step-copy-partition-distribution>

 </slave-step-copy-partition-distribution>

      <slave_transformation>N</slave_transformation>



      </transformation>
```

CargaFonteDados.kjb

```
<
j
o
b
>

        <name>CargaFonteDados</name>

     <description/>

     <extended_description/>

     <job_version/>
```

```
      <job_status>0</job_status>

   <directory>&#x2f;</directory>

   <created_user>-</created_user>

   <created_date>2016&#x2f;06&#x2f;16 10&#x3a;42&#x3a;49.100</created_date>

   <modified_user>-</modified_user>

   <modified_date>2016&#x2f;08&#x2f;02 15&#x3a;04&#x3a;25.414</modified_date>

      <parameters>

      </parameters>

      <slaveservers>

      </slaveservers>
<job-log-table><connection/>

<schema/>

<table/>

<size_limit_lines/>

<interval/>

<timeout_days/>

<field><id>ID_JOB</id><enabled>Y</enabled><name>ID_JOB</name></field><field><id>C
HANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>JOBNA
ME</id><enabled>Y</enabled><name>JOBNAME</name></field><field><id>STATUS</id><ena
bled>Y</enabled><name>STATUS</name></field><field><id>LINES_READ</id><enabled>Y</
enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</e
nabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y<
/enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y<
/enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</
enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y
</enabled><name>LINES_REJECTED</name></field><field><id>ERRORS</id><enabled>Y</en
abled><name>ERRORS</name></field><field><id>STARTDATE</id><enabled>Y</enabled><na
me>STARTDATE</name></field><field><id>ENDDATE</id><enabled>Y</enabled><name>ENDDA
TE</name></field><field><id>LOGDATE</id><enabled>Y</enabled><name>LOGDATE</name><
/field><field><id>DEPDATE</id><enabled>Y</enabled><name>DEPDATE</name></field><fi
```

eld><id>REPLAYDATE</id><enabled>Y</enabled><name>REPLAYDATE</name></field><field><id>CLIENT</id><enabled>N</enabled><name>CLIENT</name></field></job-log-table>

<jobentry-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>JOBNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>JOBENTRYNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>RESULT</id><enabled>Y</enabled><name>RESULT</name></field><field><id>NR_RESULT_ROWS</id><enabled>Y</enabled><name>NR_RESULT_ROWS</name></field><field><id>NR_RESULT_FILES</id><enabled>Y</enabled><name>NR_RESULT_FILES</name></field><field><id>LOG_FIELD</id><enabled>N</enabled><name>LOG_FIELD</name></field><field><id>COPY_NR</id><enabled>N</enabled><name>COPY_NR</name></field></jobentry-log-table>

<channel-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>LOGGING_OBJECT_TYPE</id><enabled>Y</enabled><name>LOGGING_OBJECT_TYPE</name></field>

><id>OBJECT_NAME</id><enabled>Y</enabled><name>OBJECT_NAME</name></field><field></field></channel-log-table>

    <pass_batchid>N</pass_batchid>

    <shared_objects_file/>

  <entries>

    <entry>

      <name>CargaArquivoDados</name>

      <description/>

      <type>TRANS</type>

      <specification_method>rep_name</specification_method>

      <trans_object_id/>

      <filename/>

      <transname>CargaArquivoDados</transname>

      <directory>/</directory>

      <arg_from_previous>N</arg_from_previous>

      <params_from_previous>Y</params_from_previous>

      <exec_per_row>Y</exec_per_row>

      <clear_rows>N</clear_rows>

      <clear_files>N</clear_files>

      <set_logfile>N</set_logfile>

```xml
<logfile/>

<logext/>

<add_date>N</add_date>

<add_time>N</add_time>

<loglevel>Basic</loglevel>

<cluster>N</cluster>

<slave_server_name/>

<set_append_logfile>N</set_append_logfile>

<wait_until_finished>Y</wait_until_finished>

<follow_abort_remote>N</follow_abort_remote>

<create_parent_folder>N</create_parent_folder>

<logging_remote_work>N</logging_remote_work>

<parameters>          <pass_all_parameters>Y</pass_all_parameters>

</parameters>        <parallel>N</parallel>

<draw>Y</draw>

<nr>0</nr>

<xloc>368</xloc>

<yloc>160</yloc>

</entry>

<entry>

<name>START</name>

<description/>

<type>SPECIAL</type>
```

```xml
      <start>Y</start>

      <dummy>N</dummy>

      <repeat>N</repeat>

      <schedulerType>0</schedulerType>

      <intervalSeconds>0</intervalSeconds>

      <intervalMinutes>60</intervalMinutes>

      <hour>12</hour>

      <minutes>0</minutes>

      <weekDay>1</weekDay>

      <DayOfMonth>1</DayOfMonth>

      <parallel>N</parallel>

      <draw>Y</draw>

      <nr>0</nr>

      <xloc>96</xloc>

      <yloc>160</yloc>

    </entry>

  <entry>

    <name>VariavelArquivoCarga</name>

    <description/>

    <type>TRANS</type>

    <specification_method>rep_name</specification_method>

    <trans_object_id/>

    <filename/>
```

```xml
<transname>VariavelArquivoCarga</transname>

<directory>&#x2f;</directory>

<arg_from_previous>N</arg_from_previous>

<params_from_previous>N</params_from_previous>

<exec_per_row>N</exec_per_row>

<clear_rows>N</clear_rows>

<clear_files>N</clear_files>

<set_logfile>N</set_logfile>

<logfile/>

<logext/>

<add_date>N</add_date>

<add_time>N</add_time>

<loglevel>Basic</loglevel>

<cluster>N</cluster>

<slave_server_name/>

<set_append_logfile>N</set_append_logfile>

<wait_until_finished>Y</wait_until_finished>

<follow_abort_remote>N</follow_abort_remote>

<create_parent_folder>N</create_parent_folder>

<logging_remote_work>N</logging_remote_work>

<parameters>        <pass_all_parameters>Y</pass_all_parameters>

</parameters>       <parallel>N</parallel>

<draw>Y</draw>
```

```xml
      <nr>0</nr>

      <xloc>224</xloc>

      <yloc>160</yloc>

      </entry>

    <entry>

      <name>Success</name>

      <description/>

      <type>SUCCESS</type>

      <parallel>N</parallel>

      <draw>Y</draw>

      <nr>0</nr>

      <xloc>512</xloc>

      <yloc>160</yloc>

      </entry>

  </entries>

  <hops>

    <hop>

      <from>START</from>

      <to>VariavelArquivoCarga</to>

      <from_nr>0</from_nr>

      <to_nr>0</to_nr>

      <enabled>Y</enabled>

      <evaluation>Y</evaluation>
```

```xml
      <unconditional>Y</unconditional>

    </hop>

    <hop>

      <from>VariavelArquivoCarga</from>

      <to>CargaArquivoDados</to>

      <from_nr>0</from_nr>

      <to_nr>0</to_nr>

      <enabled>Y</enabled>

      <evaluation>Y</evaluation>

      <unconditional>N</unconditional>

    </hop>

    <hop>

      <from>CargaArquivoDados</from>

      <to>Success</to>

      <from_nr>0</from_nr>

      <to_nr>0</to_nr>

      <enabled>Y</enabled>

      <evaluation>Y</evaluation>

      <unconditional>N</unconditional>

    </hop>

  </hops>

  <notepads>

  </notepads>
```

```
        </job>
```

CompararEstruturaFonteBanco.ktr

```
<tr
ans
for
mat
ion
>

        <info>

            <name>CompararEstruturaFonteBanco</name>

            <description/>

            <extended_description/>

            <trans_version/>

            <trans_type>Normal</trans_type>

            <trans_status>0</trans_status>

            <directory>&#x2f;</directory>

            <parameters>

            </parameters>

            <log>

        <trans-log-table><connection/>

        <schema/>

        <table/>

        <size_limit_lines/>

        <interval/>

        <timeout_days/>
```

<field><id>CLIENT</id><enabled>N</enabled><name>CLIENT</name></field></trans-log-table>

<perf-log-table><connection/>

<schema/>

<table/>

<interval/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>SEQ_NR</id><enabled>Y</enabled><name>SEQ_NR</name></field><field><id>LOGDATE</id><enabled>Y</enabled><name>LOGDATE</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STEPNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>STEP_COPY</id><enabled>Y</enabled><name>STEP_COPY</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>INPUT_BUFF

ER_ROWS</id><enabled>Y</enabled><name>INPUT_BUFFER_ROWS</name></field><field><id>OUTPUT_BUFFER_ROWS</id><enabled>Y</enabled><name>OUTPUT_BUFFER_ROWS</name></field></perf-log-table>

<channel-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>LOGGING_OBJECT_TYPE</id><enabled>Y</enabled><name>LOGGING_OBJECT_TYPE</name></field><field><id>OBJECT_NAME</id><enabled>Y</enabled><name>OBJECT_NAME</name></field><field><id>OBJECT_COPY</id><enabled>Y</enabled><name>OBJECT_COPY</name></field><field><id>REPOSITORY_DIRECTORY</id><enabled>Y</enabled><name>REPOSITORY_DIRECTORY</name></field><field><id>FILENAME</id><enabled>Y</enabled><name>FILENAME</name></field><field><id>OBJECT_ID</id><enabled>Y</enabled><name>OBJECT_ID</name></field><field><id>OBJECT_REVISION</id><enabled>Y</enabled><name>OBJECT_REVISION</name></field><field><id>PARENT_CHANNEL_ID</id><enabled>Y</enabled><name>PARENT_CHANNEL_ID</name></field><field><id>ROOT_CHANNEL_ID</id><enabled>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

<step-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STEPNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>STEP_COPY</id><enabled>Y</enabled><name>STEP_COPY</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><f

ield><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>
LOG_FIELD</id><enabled>N</enabled><name>LOG_FIELD</name></field></step-log-
table>

<metrics-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><fiel
d><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><
id>METRICS_CODE</id><enabled>Y</enabled><name>METRICS_CODE</name></field><fiel
d><id>METRICS_DESCRIPTION</id><enabled>Y</enabled><name>METRICS_DESCRIPTION</n
ame></field><field><id>METRICS_VALUE</id><enabled>Y</enabled><name
>METRICS_VALUE</name></field></metrics-log-table>

    </log>

    <maxdate>

      <connection/>

      <table/>

      <field/>

      <offset>0.0</offset>

      <maxdiff>0.0</maxdiff>

    </maxdate>

    <size_rowset>10000</size_rowset>

    <sleep_time_empty>50</sleep_time_empty>

    <sleep_time_full>50</sleep_time_full>

    <unique_connections>N</unique_connections>

```xml
<feedback_shown>Y</feedback_shown>

<feedback_size>50000</feedback_size>

<using_thread_priorities>Y</using_thread_priorities>

<shared_objects_file/>

<capture_step_performance>N</capture_step_performance>

<step_performance_capturing_delay>1000</step_performance_capturing_delay>

<step_performance_capturing_size_limit>100</step_performance_capturing_size_limit>

<dependencies>

</dependencies>

<partitionschemas>

</partitionschemas>

<slaveservers>

</slaveservers>

<clusterschemas>

</clusterschemas>

<created_user>-</created_user>

<created_date>2016&#x2f;06&#x2f;04 12&#x3a;24&#x3a;43.780</created_date>

<modified_user>-</modified_user>

<modified_date>2017&#x2f;03&#x2f;06 05&#x3a;24&#x3a;03.958</modified_date>

<key_for_session_key>H4sIAAAAAAAAAMAAAAAAAAAAA&#x3d;</key_for_session_key>

<is_key_private>N</is_key_private>
```

```xml
    </info>

    <notepads>

    </notepads>

    <connection>

      <name>MonitoramentoPDE_PostgreSQL</name>

      <server>&#x24;&#x7b;MONITORAMENTO_PDE_HOST&#x7d;</server>

      <type>POSTGRESQL</type>

      <access>Native</access>

      <database>&#x24;&#x7b;MONITORAMENTO_PDE_BANCO&#x7d;</database>

      <port>&#x24;&#x7b;MONITORAMENTO_PDE_PORTA&#x7d;</port>

      <username>&#x24;&#x7b;MONITORAMENTO_PDE_USUARIO&#x7d;</username>

      <password>&#x24;&#x7b;MONITORAMENTO_PDE_SENHA&#x7d;</password>

      <servername/>

      <data_tablespace/>

      <index_tablespace/>

      <attributes>

<attribute><code>FORCE_IDENTIFIERS_TO_LOWERCASE</code><attribute>N</attribute>
</attribute>

<attribute><code>FORCE_IDENTIFIERS_TO_UPPERCASE</code><attribute>N</attribute>
</attribute>

      <attribute><code>IS_CLUSTERED</code><attribute>N</attribute></attribute>

<attribute><code>PORT_NUMBER</code><attribute>&#x24;&#x7b;MONITORAMENTO_PDE_PO
RTA&#x7d;</attribute></attribute>
```

```
<attribute><code>PRESERVE_RESERVED_WORD_CASE</code><attribute>Y</attribute></a
ttribute>

<attribute><code>QUOTE_ALL_FIELDS</code><attribute>N</attribute></attribute>

<attribute><code>SUPPORTS_BOOLEAN_DATA_TYPE</code><attribute>Y</attribute></at
tribute>

<attribute><code>SUPPORTS_TIMESTAMP_DATA_TYPE</code><attribute>Y</attribute></
attribute>

      <attribute><code>USE_POOLING</code><attribute>N</attribute></attribute>

    </attributes>

  </connection>

  <order>

  <hop> <from>Obter colunas do stream</from><to>Ordenar colunas stream pelo
nome</to><enabled>Y</enabled> </hop>

  <hop> <from>Obter colunas do banco</from><to>Retirar data de
refer&#xea;ncia</to><enabled>Y</enabled> </hop>

  <hop> <from>Retirar data de refer&#xea;ncia</from><to>Ordenar colunas banco
pelo nome</to><enabled>Y</enabled> </hop>

  <hop> <from>Retirar data de refer&#xea;ncia</from><to>Descartar data de
refer&#xea;ncia</to><enabled>Y</enabled> </hop>

  <hop> <from>Ordenar colunas banco pelo nome</from><to>Join pelo nome
coluna</to><enabled>Y</enabled> </hop>

  <hop> <from>Ordenar colunas stream pelo nome</from><to>Join pelo nome
coluna</to><enabled>Y</enabled> </hop>

  <hop> <from>Join pelo nome coluna</from><to>Compara as
colunas</to><enabled>Y</enabled> </hop>

  <hop> <from>Teste input banco</from><to>Ordenar colunas banco pelo
nome</to><enabled>N</enabled> </hop>
```

```
    <hop> <from>Teste input stream</from><to>Ordenar colunas stream pelo
nome</to><enabled>N</enabled> </hop>

    <hop> <from>Compara as colunas</from><to>Setar Dif Na
Variavel</to><enabled>Y</enabled> </hop>

    <hop> <from>Setar Dif Na Variavel</from><to>Identificar ultima linha no
stream</to><enabled>Y</enabled> </hop>

    <hop> <from>Identificar ultima linha no stream</from><to>Filtrar ultima
linha para vari&#xe1;vel</to><enabled>Y</enabled> </hop>

    <hop> <from>Filtrar ultima linha para vari&#xe1;vel</from><to>Retorna
mudan&#xe7;a nas colunas</to><enabled>Y</enabled> </hop>

    <hop> <from>Filtrar ultima linha para vari&#xe1;vel</from><to>Descartar
linhas menos a &#xfa;ltima</to><enabled>Y</enabled> </hop>

    <hop> <from>Identificar ultima linha no stream</from><to>Teste
Comparacao</to><enabled>N</enabled> </hop>

    <hop> <from>Compara as colunas</from><to>Testar tipos dos
campos</to><enabled>Y</enabled> </hop>

    <hop> <from>Testar tipos dos campos</from><to>Filtrar
diferen&#xe7;as</to><enabled>Y</enabled> </hop>

    <hop> <from>Filtrar diferen&#xe7;as</from><to>Descartar colunas
id&#xea;nticas</to><enabled>Y</enabled> </hop>

    <hop> <from>Filtrar diferen&#xe7;as</from><to>Setar Dif Na
Variavel</to><enabled>Y</enabled> </hop>

  </order>

  <step>

    <name>Compara as colunas</name>

    <type>CompareFields</type>

    <description/>

    <distribute>Y</distribute>
```

```xml
<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

    </partitioning>

<changed_target_step>Setar Dif Na Variavel</changed_target_step>

<identical_target_step>Testar tipos dos campos</identical_target_step>

<added_target_step>Setar Dif Na Variavel</added_target_step>

<removed_target_step>Setar Dif Na Variavel</removed_target_step>

<add_fields_list>N</add_fields_list>

<fields_list_field/>

<fields><field><reference_field>NomeCampo</reference_field>

<compare_field>column_name</compare_field>

</field></fields>    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>384</xloc>

    <yloc>400</yloc>

    <draw>Y</draw>

    </GUI>

  </step>


  <step>
```

```xml
<name>Descartar colunas id&#xea;nticas</name>

<type>Dummy</type>

<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>752</xloc>

        <yloc>480</yloc>

        <draw>Y</draw>

        </GUI>

    </step>


  <step>

    <name>Descartar data de refer&#xea;ncia</name>

    <type>Dummy</type>

    <description/>
```

```xml
<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

    </partitioning>

  <cluster_schema/>

 <remotesteps>  <input>  </input>  <output>  </output> </remotesteps>
<GUI>

    <xloc>576</xloc>

    <yloc>96</yloc>

    <draw>Y</draw>

    </GUI>

  </step>


  <step>

    <name>Descartar linhas menos a &#xfa;ltima</name>

    <type>Dummy</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

      <partitioning>
```

```xml
        <method>none</method>

        <schema_name/>

        </partitioning>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>576</xloc>

      <yloc>640</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Filtrar ultima linha para vari&#xe1;vel</name>

    <type>FilterRows</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>
```

```xml
<send_true_to>Retorna mudan&#xe7;a nas colunas</send_true_to>

<send_false_to>Descartar linhas menos a &#xfa;ltima</send_false_to>

    <compare>

<condition>

 <negated>N</negated>

 <leftvalue>UltimaLinha</leftvalue>

 <function>&#x3d;</function>

 <rightvalue/>

 <value><name>constant</name><type>Boolean</type><text>Y</text><length>-1</length><precision>-1</precision><isnull>N</isnull><mask/></value>
</condition>

    </compare>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>384</xloc>

      <yloc>640</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Identificar ultima linha no stream</name>

    <type>DetectLastRow</type>

    <description/>
```

```xml
    <distribute>N</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

    <resultfieldname>UltimaLinha</resultfieldname>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>384</xloc>

      <yloc>560</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Join pelo nome coluna</name>

    <type>MergeJoin</type>

    <description/>

    <distribute>N</distribute>

    <custom_distribution/>
```

```
        <copies>1</copies>

            <partitioning>

                <method>none</method>

                <schema_name/>

                </partitioning>

<join_type>FULL OUTER</join_type>

<step1>Ordenar colunas banco pelo nome</step1>

<step2>Ordenar colunas stream pelo nome</step2>

        <keys_1>

            <key>column_name</key>

        </keys_1>

        <keys_2>

            <key>NomeCampo</key>

        </keys_2>

         <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

            <xloc>384</xloc>

            <yloc>304</yloc>

            <draw>Y</draw>

            </GUI>

        </step>


    <step>
```

```
<name>Obter colunas do banco</name>

<type>TableInput</type>

<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

    </partitioning>

<connection>MonitoramentoPDE_PostgreSQL</connection>

<sql>select &#xd;&#xa;column_name,
&#xd;&#xa;ordinal_position,&#xd;&#xa;data_type&#xd;&#xa;from
information_schema.columns &#xd;&#xa;where table_name &#x3d;
&#x27;&#x24;&#x7b;NOME_TABELA&#x7d;&#x27;</sql>

<limit>0</limit>

<lookup/>

<execute_each_row>N</execute_each_row>

<variables_active>Y</variables_active>

<lazy_conversion_active>N</lazy_conversion_active>

  <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>384</xloc>

    <yloc>16</yloc>
```

```xml
      <draw>Y</draw>

    </GUI>

  </step>


<step>

  <name>Obter colunas do stream</name>

  <type>RowsFromResult</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

  <fields>    <field>        <name>NomeCampo</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      </field>      <field>        <name>IndiceCampo</name>

      <type>Integer</type>

      <length>-1</length>

      <precision>-1</precision>
```

```xml
      </field>    </fields>    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>208</xloc>

      <yloc>16</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Ordenar colunas banco pelo nome</name>

    <type>SortRows</type>

    <description/>

    <distribute>N</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

      <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

      <prefix>out</prefix>

      <sort_size>1000000</sort_size>
```

```xml
        <free_memory/>

        <compress>N</compress>

        <compress_variable/>

        <unique_rows>N</unique_rows>

      <fields>

        <field>

          <name>column_name</name>

          <ascending>Y</ascending>

          <case_sensitive>N</case_sensitive>

          <presorted>N</presorted>

        </field>

      </fields>

       <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
  <GUI>

        <xloc>384</xloc>

        <yloc>208</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Ordenar colunas stream pelo nome</name>

      <type>SortRows</type>
```

```xml
<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

  <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

  <prefix>out</prefix>

  <sort_size>1000000</sort_size>

  <free_memory/>

  <compress>N</compress>

  <compress_variable/>

  <unique_rows>N</unique_rows>

<fields>

  <field>

    <name>NomeCampo</name>

    <ascending>Y</ascending>

    <case_sensitive>N</case_sensitive>

    <presorted>N</presorted>

  </field>

</fields>
```

```xml
    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>208</xloc>

      <yloc>304</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Retirar data de refer&#xea;ncia</name>

    <type>FilterRows</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

<send_true_to>Ordenar colunas banco pelo nome</send_true_to>

<send_false_to>Descartar data de refer&#xea;ncia</send_false_to>

    <compare>
```

```xml
<condition>

 <negated>N</negated>

 <leftvalue>column_name</leftvalue>

 <function>&#x3c;&#x3e;</function>

 <rightvalue/>


<value><name>constant</name><type>String</type><text>data_referenci</text><len
gth>-1</length><precision>-1</precision><isnull>N</isnull><mask/></value>
</condition>

    </compare>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>384</xloc>

      <yloc>96</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Retorna mudan&#xe7;a nas colunas</name>

    <type>SetVariable</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>
```

```xml
<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

  <fields>

    <field>

      <field_name>SetarDifNaVariavel</field_name>

      <variable_name>ESTRUTURA_STREAM_BD_IDENTICA</variable_name>

      <variable_type>JVM</variable_type>

      <default_value/>

      </field>

    </fields>

  <use_formatting>Y</use_formatting>

   <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>384</xloc>

      <yloc>736</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>
```

```xml
<name>Setar Dif Na Variavel</name>

<type>Constant</type>

<description/>

<distribute>N</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<fields>

  <field>

    <name>SetarDifNaVariavel</name>

    <type>Boolean</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <nullif>false</nullif>

    <length>-1</length>

    <precision>-1</precision>

    <set_empty_string>N</set_empty_string>

  </field>
```

```xml
        </fields>

        <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>384</xloc>

        <yloc>480</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Teste Comparacao</name>

      <type>TextFileOutput</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>

          </partitioning>

      <separator>&#x3b;</separator>

      <enclosure>&#x22;</enclosure>
```

```xml
<enclosure_forced>N</enclosure_forced>

<enclosure_fix_disabled>N</enclosure_fix_disabled>

<header>Y</header>

<footer>N</footer>

<format>DOS</format>

<compression>None</compression>

<encoding/>

<endedLine/>

<fileNameInField>N</fileNameInField>

<fileNameField/>

<create_parent_folder>Y</create_parent_folder>

<file>

<name>C&#x3a;&#x5c;Pentaho&#x5c;Teste&#x5c;Log&#x5c;ListarColunasComparacao</name>

<is_command>N</is_command>

<servlet_output>N</servlet_output>

<do_not_open_new_file_init>N</do_not_open_new_file_init>

<extention>txt</extention>

<append>N</append>

<split>N</split>

<haspartno>N</haspartno>

<add_date>N</add_date>

<add_time>N</add_time>
```

```xml
<SpecifyFormat>N</SpecifyFormat>

<date_time_format/>

<add_to_result_filenames>Y</add_to_result_filenames>

<pad>N</pad>

<fast_dump>N</fast_dump>

<splitevery>0</splitevery>
</file>
<fields>
  <field>

    <name>column_name</name>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <nullif/>

    <trim_type>both</trim_type>

    <length>-1</length>

    <precision>-1</precision>

  </field>
  <field>

    <name>ordinal_position</name>

    <type>Integer</type>
```

```xml
      <format>0</format>

      <currency/>

      <decimal>,</decimal>

      <group>.</group>

      <nullif/>

      <trim_type>both</trim_type>

      <length>-1</length>

      <precision>-1</precision>

  </field>

  <field>

      <name>NomeCampo</name>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif/>

      <trim_type>both</trim_type>

      <length>-1</length>

      <precision>-1</precision>

  </field>

  <field>

      <name>IndiceCampo</name>
```

```xml
      <type>Integer</type>

      <format>0</format>

      <currency/>

      <decimal>,</decimal>

      <group>.</group>

      <nullif/>

      <trim_type>both</trim_type>

      <length>-1</length>

      <precision>-1</precision>

  </field>

  <field>

      <name>SetarDifNaVariavel</name>

      <type>Boolean</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif/>

      <trim_type>both</trim_type>

      <length>-1</length>

      <precision>-1</precision>

  </field>

  <field>
```

```xml
          <name>UltimaLinha</name>

          <type>Boolean</type>

          <format/>

          <currency/>

          <decimal/>

          <group/>

          <nullif/>

          <trim_type>both</trim_type>

          <length>-1</length>

          <precision>-1</precision>

        </field>

    </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>64</xloc>

      <yloc>560</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Teste input banco</name>

    <type>DataGrid</type>
```

```xml
<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<fields>

  <field>

    <name>column_name</name>

    <type/>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <length>-1</length>

    <precision>-1</precision>

    <set_empty_string>N</set_empty_string>

  </field>

  <field>

    <name>ordinal_position</name>

    <type/>
```

```xml
        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <set_empty_string>N</set_empty_string>

      </field>

  </fields>

  <data>

    <line> <item>setor_quadra_lote</item><item>1</item> </line>

    <line> <item>tipologia</item><item>2</item> </line>

    <line> <item>logradouro</item><item>3</item> </line>

    <line> <item>n</item><item>4</item> </line>

    <line> <item>subpref</item><item>5</item> </line>

    <line> <item>suprefeitura</item><item>6</item> </line>

    <line> <item>perimetro</item><item>7</item> </line>

    <line> <item>area_de_terreno</item><item>8</item> </line>

    <line> <item>area_construida</item><item>9</item> </line>

    <line> <item>data_da_notificacao</item><item>10</item> </line>

    <line> <item>identificacao_do_instrumento</item><item>11</item> </line>

    <line> <item>solicitacao_de_averbacao</item><item>12</item> </line>

    <line> <item>data_de_inicio_da_aplicacao</item><item>13</item> </line>
```

```
        <line>
<item>data_de_protocolo_de_aprovacao_de_projeto</item><item>14</item> </line>

        <line>
<item>data_de_expedicao_do_alvara_de_projeto</item><item>15</item> </line>

        <line> <item>situacao_do_imovel</item><item>16</item> </line>

        <line>
<item>data_de_comunicacao_da_conclusao_do_projeto</item><item>17</item>
</line>

        <line>
<item>data_da_comunicacao_da_ocupacao_do_imovel</item><item>18</item> </line>

        <line> <item>averbacao</item><item>19</item> </line>

        <line>
<item>data_da_primeira_aplicacao_da_aliquota_progressiva</item><item>20</item>
</line>

        <line> <item>valor_da_aliquota_ano</item><item>21</item> </line>

        <line>
<item>data_da_publicacao_do_decreto_de_desapropriacao</item><item>22</item>
</line>

        <line>
<item>data_da_propositura_de_acao_de_desapropriacao</item><item>23</item>
</line>

        <line> <item>destinacao_do_imovel</item><item>24</item> </line>

        <line>
<item>justificativa_da_ausencia_de_interesse_na_aquisicao</item><item>25</item
> </line>

    </data>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>48</xloc>
```

```xml
        <yloc>208</yloc>

        <draw>Y</draw>

        </GUI>

    </step>


    <step>

      <name>Teste input stream</name>

      <type>DataGrid</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>

            </partitioning>

      <fields>

        <field>

          <name>NomeCampo</name>

          <type/>

          <format/>

          <currency/>

          <decimal/>
```

```xml
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        <precision>-1</precision>

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      </field>

      <field>

        <name>IndiceCampo</name>

        <type/>

        <format/>

        <currency/>

        <decimal/>

        <group/>

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        <precision>-1</precision>

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      </field>

    </fields>

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      <line> <item>tipologia</item><item>2</item> </line>

      <line> <item>logradouro</item><item>3</item> </line>

      <line> <item>n</item><item>4</item> </line>

      <line> <item>subpref</item><item>5</item> </line>
```

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<line> <item>suprefeitura</item><item>5</item> </line>

<line> <item>perimetro</item><item>6</item> </line>

<line> <item>area_de_terreno</item><item>7</item> </line>

<line> <item>area_construida</item><item>8</item> </line>

<line> <item>data_da_notificacao</item><item>9</item> </line>

<line> <item>identificacao_do_instrumento</item><item>10</item> </line>

<line> <item>solicitacao_de_averbacao</item><item>12</item> </line>

<line> <item>data_de_inicio_da_aplicacao</item><item>13</item> </line>

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<line> <item>averbacao</item><item>17</item> </line>

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```

```xml
      </line>

        <line> <item>destinacao_do_imovel</item><item>22</item> </line>

        <line>
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> </line>

      </data>

       <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

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        <yloc>304</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Testar tipos dos campos</name>

      <type>ScriptValueMod</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>
```

```xml
          </partitioning>

    <compatible>N</compatible>

    <optimizationLevel>9</optimizationLevel>

    <jsScripts>        <jsScript>          <jsScript_type>0</jsScript_type>

        <jsScript_name>Script 1</jsScript_name>

        <jsScript_script>&#x2f;&#x2f;Script
here&#xd;&#xa;&#xd;&#xa;if&#x28;data_type &#x21;&#x3d; &#x27;date&#x27;
&#x26;&#x26; coluna_data &#x21;&#x3d; null&#x29;&#xd;&#xa;        dif_tipo
&#x3d; true&#x3b;&#xd;&#xa;&#xd;&#xa;if&#x28;data_type &#x21;&#x3d;
&#x27;integer&#x27; &#x26;&#x26; coluna_inteiro &#x21;&#x3d;
null&#x29;&#xd;&#xa;  dif_tipo &#x3d;
true&#x3b;&#xd;&#xa;&#xd;&#xa;if&#x28;data_type &#x21;&#x3d;
&#x27;numeric&#x27; &#x26;&#x26; coluna_numerica &#x21;&#x3d;
null&#x29;&#xd;&#xa;  dif_tipo &#x3d; true&#x3b;</jsScript_script>

      </jsScript>    </jsScripts>    <fields>      <field>
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        <rename>dif_tipo</rename>

        <type>Boolean</type>

        <length>-1</length>

        <precision>-1</precision>

        <replace>N</replace>

      </field>    </fields>      <cluster_schema/>

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<GUI>

      <xloc>592</xloc>

      <yloc>400</yloc>

      <draw>Y</draw>

      </GUI>
```

```xml
    </step>


  <step>

    <name>Filtrar diferen&#xe7;as</name>

    <type>FilterRows</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

<send_true_to>Setar Dif Na Variavel</send_true_to>

<send_false_to>Descartar colunas id&#xea;nticas</send_false_to>

    <compare>

<condition>

 <negated>N</negated>

 <leftvalue>dif_tipo</leftvalue>

 <function>&#x3d;</function>

 <rightvalue/>

 <value><name>constant</name><type>Boolean</type><text>Y</text><length>-
1</length><precision>-1</precision><isnull>N</isnull><mask/></value>
</condition>
```

```
        </compare>

        <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>592</xloc>

        <yloc>480</yloc>

        <draw>Y</draw>

        </GUI>

      </step>



    <step_error_handling>

    </step_error_handling>

      <slave-step-copy-partition-distribution>

</slave-step-copy-partition-distribution>

      <slave_transformation>N</slave_transformation>



    </transformation>
```

CriarEstruturaTabela.kjb

```
<
j
o
b
>

      <name>CriarEstruturaTabela</name>

      <description/>
```

```xml
    <extended_description/>

    <job_version/>

    <job_status>0</job_status>

<directory>&#x2f;</directory>

<created_user>-</created_user>

<created_date>2016&#x2f;06&#x2f;04 17&#x3a;43&#x3a;48.662</created_date>

<modified_user>-</modified_user>

<modified_date>2016&#x2f;10&#x2f;18 15&#x3a;25&#x3a;31.777</modified_date>

    <parameters>

    </parameters>

<connection>

    <name>MonitoramentoPDE_PostgreSQL</name>

    <server>&#x24;&#x7b;MONITORAMENTO_PDE_HOST&#x7d;</server>

    <type>POSTGRESQL</type>

    <access>Native</access>

    <database>&#x24;&#x7b;MONITORAMENTO_PDE_BANCO&#x7d;</database>

    <port>&#x24;&#x7b;MONITORAMENTO_PDE_PORTA&#x7d;</port>

    <username>&#x24;&#x7b;MONITORAMENTO_PDE_USUARIO&#x7d;</username>

    <password>&#x24;&#x7b;MONITORAMENTO_PDE_SENHA&#x7d;</password>

    <servername/>

    <data_tablespace/>

    <index_tablespace/>

    <attributes>
```

```xml
<attribute><code>FORCE_IDENTIFIERS_TO_LOWERCASE</code><attribute>N</attribute></attribute>

<attribute><code>FORCE_IDENTIFIERS_TO_UPPERCASE</code><attribute>N</attribute></attribute>

    <attribute><code>IS_CLUSTERED</code><attribute>N</attribute></attribute>

<attribute><code>PORT_NUMBER</code><attribute>&#x24;&#x7b;MONITORAMENTO_PDE_PORTA&#x7d;</attribute></attribute>

<attribute><code>PRESERVE_RESERVED_WORD_CASE</code><attribute>Y</attribute></attribute>

<attribute><code>QUOTE_ALL_FIELDS</code><attribute>N</attribute></attribute>

<attribute><code>SUPPORTS_BOOLEAN_DATA_TYPE</code><attribute>Y</attribute></attribute>

<attribute><code>SUPPORTS_TIMESTAMP_DATA_TYPE</code><attribute>Y</attribute></attribute>

    <attribute><code>USE_POOLING</code><attribute>N</attribute></attribute>

  </attributes>

</connection>

  <slaveservers>

  </slaveservers>

<job-log-table><connection/>

<schema/>

<table/>
```

```xml
<size_limit_lines/>

<interval/>

<timeout_days/>

<field><id>ID_JOB</id><enabled>Y</enabled><name>ID_JOB</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>JOBNAME</id><enabled>Y</enabled><name>JOBNAME</name></field><field><id>STATUS</id><enabled>Y</enabled><name>STATUS</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>STARTDATE</id><enabled>Y</enabled><name>STARTDATE</name></field><field><id>ENDDATE</id><enabled>Y</enabled><name>ENDDATE</name></field><field><id>LOGDATE</id><enabled>Y</enabled><name>LOGDATE</name></field><field><id>DEPDATE</id><enabled>Y</enabled><name>DEPDATE</name></field><field><id>REPLAYDATE</id><enabled>Y</enabled><name>REPLAYDATE</name></field><field><id>LOG_FIELD</id><enabled>Y</enabled><name>LOG_FIELD</name></field><field><id>EXECUTING_SERVER</id><enabled>N</enabled><name>EXECUTING_SERVER</name></field><field><id>EXECUTING_USER</id><enabled>N</enabled><name>EXECUTING_USER</name></field><field><id>START_JOB_ENTRY</id><enabled>N</enabled><name>START_JOB_ENTRY</name></field><field><id>CLIENT</id><enabled>N</enabled><name>CLIENT</name></field></job-log-table>

<jobentry-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>JOBNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>JOBENTRYNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>LINES_REJECTED</id><ena
```

bled>Y</enabled><name>LINES_REJECTED</name></field><field><id>COPY_NR</id><enabled>N</enabled><name>COPY_NR</name></field></jobentry-log-table>

<channel-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>LOGGING_OBJECT_TYPE</id><enabled>Y</enabled><name>LOGGING_OBJECT_TYPE</name></field><field><id>OBJECT_NAME</id><enabled>Y</enabled><name>OBJECT_NAME</name></field><field><id>OBJECT_COPY</id><enabled>Y</enabled><name>OBJECT_COPY</name></field><field><id>REPOSITORY_DIRECTORY</id><enabled>Y</enabled><name>REPOSITORY_DIRECTORY</name></field><field><id>FILENAME</id><enabled>Y</enabled><name>FILENAME</name></field><field><id>OBJECT_ID</id><enabled>Y</enabled><name>OBJECT_ID</name></field><field><id>OBJECT_REVISION</id><enabled>Y</enabled><name>OBJECT_REVISION</name></field><field><id>PARENT_CHANNEL_ID</id><enabled>Y</enabled><name>PARENT_CHANNEL_ID</name></field><field><id>ROOT_CHANNEL_ID</id><enabled>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

    <pass_batchid>N</pass_batchid>

    <shared_objects_file/>

  <entries>

    <entry>

      <name>ObterEstruturaFonteDados</name>

      <description/>

      <type>TRANS</type>

```xml
<trans_object_id/>

<filename/>

<transname>ObterEstruturaFonteDados</transname>

<directory>&#x2f;</directory>

<arg_from_previous>N</arg_from_previous>

<params_from_previous>Y</params_from_previous>

<exec_per_row>N</exec_per_row>

<clear_rows>N</clear_rows>

<clear_files>N</clear_files>

<set_logfile>N</set_logfile>

<logfile/>

<logext/>

<add_date>N</add_date>

<add_time>N</add_time>

<loglevel>Basic</loglevel>

<cluster>N</cluster>

<slave_server_name/>

<set_append_logfile>N</set_append_logfile>

<wait_until_finished>Y</wait_until_finished>

<follow_abort_remote>N</follow_abort_remote>

<create_parent_folder>N</create_parent_folder>

<logging_remote_work>N</logging_remote_work>

<parameters>          <pass_all_parameters>Y</pass_all_parameters>
```

```xml
    </parameters>        <parallel>N</parallel>

    <draw>Y</draw>

    <nr>0</nr>

    <xloc>144</xloc>

    <yloc>144</yloc>

    </entry>

<entry>

    <name>Cria tabela fonte de dados</name>

    <description/>

    <type>SQL</type>

    <sql>&#x24;&#x7b;SQL_CREATE_TABLE&#x7d;</sql>

    <useVariableSubstitution>T</useVariableSubstitution>

    <sqlfromfile>F</sqlfromfile>

    <sqlfilename/>

    <sendOneStatement>T</sendOneStatement>

    <connection>MonitoramentoPDE_PostgreSQL</connection>

    <parallel>N</parallel>

    <draw>Y</draw>

    <nr>0</nr>

    <xloc>144</xloc>

    <yloc>640</yloc>

    </entry>

<entry>
```

```xml
<name>Deletar por data inicio e data fim</name>

<description/>

<type>SQL</type>

<sql>delete from
&#xd;&#xa;&#x24;&#x7b;SCHEMA_FONTE_DADOS&#x7d;.&#x24;&#x7b;NOME_TABELA&#x7d;
&#xd;&#xa;where &#x24;&#x7b;COLUNA_DATA&#x7d; between
to_date&#x28;&#x27;&#x24;&#x7b;DATA_INICIO&#x7d;&#x27;,&#x27;YYYYMMDD&#x27;&#x29;
and
to_date&#x28;&#x27;&#x24;&#x7b;DATA_FIM&#x7d;&#x27;,&#x27;YYYYMMDD&#x27;&#x29;&#x3b;</sql>

<useVariableSubstitution>T</useVariableSubstitution>

<sqlfromfile>F</sqlfromfile>

<sqlfilename/>

<sendOneStatement>T</sendOneStatement>

<connection>MonitoramentoPDE_PostgreSQL</connection>

<parallel>N</parallel>

<draw>Y</draw>

<nr>0</nr>

<xloc>624</xloc>

<yloc>640</yloc>

</entry>

<entry>

<name>Dropar tabela fonte dados</name>

<description/>

<type>SQL</type>

<sql>drop table
&#x24;&#x7b;SCHEMA_FONTE_DADOS&#x7d;.&#x24;&#x7b;NOME_TABELA&#x7d; cascade</sql>
```

```xml
<useVariableSubstitution>T</useVariableSubstitution>

<sqlfromfile>F</sqlfromfile>

<sqlfilename/>

<sendOneStatement>T</sendOneStatement>

<connection>MonitoramentoPDE_PostgreSQL</connection>

<parallel>N</parallel>

<draw>Y</draw>

<nr>0</nr>

<xloc>384</xloc>

<yloc>544</yloc>

</entry>
<entry>

<name>Verifica resultado da compara&#xe7;&#xe3;o dos campos</name>

<description/>

<type>SIMPLE_EVAL</type>

<valuetype>variable</valuetype>

<fieldname/>

<variablename>ESTRUTURA_STREAM_BD_IDENTICA</variablename>

<fieldtype>boolean</fieldtype>

<mask/>

<comparevalue/>

<minvalue/>

<maxvalue/>
```

```xml
      <successcondition>equal</successcondition>

      <successnumbercondition>equal</successnumbercondition>

      <successbooleancondition>true</successbooleancondition>

      <successwhenvarset>N</successwhenvarset>

      <parallel>N</parallel>

      <draw>Y</draw>

      <nr>0</nr>

      <xloc>624</xloc>

      <yloc>544</yloc>

    </entry>

  <entry>

    <name>CompararEstruturaFonteBanco</name>

    <description/>

    <type>TRANS</type>

    <specification_method>rep_name</specification_method>

    <trans_object_id/>

    <filename/>

    <transname>CompararEstruturaFonteBanco</transname>

    <directory>&#x2f;</directory>

    <arg_from_previous>N</arg_from_previous>

    <params_from_previous>N</params_from_previous>

    <exec_per_row>N</exec_per_row>

    <clear_rows>N</clear_rows>
```

```xml
<clear_files>N</clear_files>

<set_logfile>N</set_logfile>

<logfile/>

<logext/>

<add_date>N</add_date>

<add_time>N</add_time>

<loglevel>Basic</loglevel>

<cluster>N</cluster>

<slave_server_name/>

<set_append_logfile>N</set_append_logfile>

<wait_until_finished>Y</wait_until_finished>

<follow_abort_remote>N</follow_abort_remote>

<create_parent_folder>N</create_parent_folder>

<logging_remote_work>N</logging_remote_work>

<parameters>        <pass_all_parameters>Y</pass_all_parameters>

</parameters>       <parallel>N</parallel>

<draw>Y</draw>

<nr>0</nr>

<xloc>624</xloc>

<yloc>336</yloc>

</entry>

<entry>

<name>Verifica se deve fazer carga parcial pela data inicio</name>
```

```xml
    <description/>

    <type>SIMPLE_EVAL</type>

    <valuetype>variable</valuetype>

    <fieldname/>

    <variablename>DATA_INICIO</variablename>

    <fieldtype>datetime</fieldtype>

    <mask>yyyyMMdd</mask>

    <comparevalue>19000101</comparevalue>

    <minvalue/>

    <maxvalue/>

    <successcondition>equal</successcondition>

    <successnumbercondition>greater</successnumbercondition>

    <successbooleancondition>false</successbooleancondition>

    <successwhenvarset>N</successwhenvarset>

    <parallel>N</parallel>

    <draw>Y</draw>

    <nr>0</nr>

    <xloc>384</xloc>

    <yloc>432</yloc>

    </entry>

  <entry>

    <name>Verifica se deve fazer carga parcial pela data fim</name>

    <description/>
```

```xml
        <type>SIMPLE_EVAL</type>

        <valuetype>variable</valuetype>

        <fieldname/>

        <variablename>DATA_FIM</variablename>

        <fieldtype>datetime</fieldtype>

        <mask>yyyyMMdd</mask>

        <comparevalue>21990101</comparevalue>

        <minvalue/>

        <maxvalue/>

        <successcondition>equal</successcondition>

        <successnumbercondition>smaller</successnumbercondition>

        <successbooleancondition>false</successbooleancondition>

        <successwhenvarset>N</successwhenvarset>

        <parallel>N</parallel>

        <draw>Y</draw>

        <nr>0</nr>

        <xloc>384</xloc>

        <yloc>336</yloc>

      </entry>

  <entry>

    <name>Encerrar</name>

    <description/>

    <type>ABORT</type>
```

```
<message>O comando create table n&#xe3;o foi criado &#x28;Linhas do
cabe&#xe7;alho vazias&#x3f;&#x29;</message>

<parallel>N</parallel>

<draw>Y</draw>

<nr>0</nr>

<xloc>384</xloc>

<yloc>240</yloc>

</entry>
<entry>

<name>Verifica se o create table foi criado com sucesso</name>

<description/>

<type>SIMPLE_EVAL</type>

<valuetype>variable</valuetype>

<fieldname/>

<variablename>SQL_CREATE_TABLE</variablename>

<fieldtype>string</fieldtype>

<mask/>

<comparevalue> </comparevalue>

<minvalue/>

<maxvalue/>

<successcondition>different</successcondition>

<successnumbercondition>equal</successnumbercondition>

<successbooleancondition>false</successbooleancondition>
```

```
        <successwhenvarset>N</successwhenvarset>

        <parallel>N</parallel>

        <draw>Y</draw>

        <nr>0</nr>

        <xloc>144</xloc>

        <yloc>240</yloc>

        </entry>

    <entry>

        <name>Verifica se a tabela j&#xe1; existe no banco</name>

        <description/>

        <type>TABLE_EXISTS</type>

        <tablename>&#x24;&#x7b;NOME_TABELA&#x7d;</tablename>

        <schemaname>fonte_dados</schemaname>

        <connection>MonitoramentoPDE_PostgreSQL</connection>

        <parallel>N</parallel>

        <draw>Y</draw>

        <nr>0</nr>

        <xloc>144</xloc>

        <yloc>336</yloc>

        </entry>

    <entry>

        <name>START</name>

        <description/>
```

```xml
        <type>SPECIAL</type>

        <start>Y</start>

        <dummy>N</dummy>

        <repeat>N</repeat>

        <schedulerType>0</schedulerType>

        <intervalSeconds>0</intervalSeconds>

        <intervalMinutes>60</intervalMinutes>

        <hour>12</hour>

        <minutes>0</minutes>

        <weekDay>1</weekDay>

        <DayOfMonth>1</DayOfMonth>

        <parallel>N</parallel>

        <draw>Y</draw>

        <nr>0</nr>

        <xloc>144</xloc>

        <yloc>48</yloc>

      </entry>
    <entry>

      <name>Success</name>

      <description/>

      <type>SUCCESS</type>

      <parallel>N</parallel>

      <draw>Y</draw>
```

```xml
        <nr>0</nr>

        <xloc>384</xloc>

        <yloc>640</yloc>

      </entry>

  </entries>

  <hops>

    <hop>

      <from>ObterEstruturaFonteDados</from>

      <to>Verifica se o create table foi criado com sucesso</to>

      <from_nr>0</from_nr>

      <to_nr>0</to_nr>

      <enabled>Y</enabled>

      <evaluation>Y</evaluation>

      <unconditional>N</unconditional>

    </hop>

    <hop>

      <from>Verifica se o create table foi criado com sucesso</from>

      <to>Verifica se a tabela j&#xe1; existe no banco</to>

      <from_nr>0</from_nr>

      <to_nr>0</to_nr>

      <enabled>Y</enabled>

      <evaluation>Y</evaluation>

      <unconditional>N</unconditional>
```

```xml
</hop>

<hop>

  <from>Verifica se a tabela j&#xe1; existe no banco</from>

  <to>Cria tabela fonte de dados</to>

  <from_nr>0</from_nr>

  <to_nr>0</to_nr>

  <enabled>Y</enabled>

  <evaluation>N</evaluation>

  <unconditional>N</unconditional>

</hop>

<hop>

  <from>Verifica se o create table foi criado com sucesso</from>

  <to>Encerrar</to>

  <from_nr>0</from_nr>

  <to_nr>0</to_nr>

  <enabled>Y</enabled>

  <evaluation>N</evaluation>

  <unconditional>N</unconditional>

</hop>

<hop>

  <from>Verifica se a tabela j&#xe1; existe no banco</from>

  <to>Verifica se deve fazer carga parcial pela data fim</to>

  <from_nr>0</from_nr>
```

```xml
    <to_nr>0</to_nr>

    <enabled>Y</enabled>

    <evaluation>Y</evaluation>

    <unconditional>N</unconditional>

</hop>

<hop>

    <from>Verifica se deve fazer carga parcial pela data fim</from>

    <to>CompararEstruturaFonteBanco</to>

    <from_nr>0</from_nr>

    <to_nr>0</to_nr>

    <enabled>Y</enabled>

    <evaluation>Y</evaluation>

    <unconditional>N</unconditional>

</hop>

<hop>

    <from>Verifica se deve fazer carga parcial pela data fim</from>

    <to>Verifica se deve fazer carga parcial pela data inicio</to>

    <from_nr>0</from_nr>

    <to_nr>0</to_nr>

    <enabled>Y</enabled>

    <evaluation>N</evaluation>

    <unconditional>N</unconditional>

</hop>
```

```xml
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  <to>Dropar tabela fonte dados</to>

  <from_nr>0</from_nr>

  <to_nr>0</to_nr>

  <enabled>Y</enabled>

  <evaluation>N</evaluation>

  <unconditional>N</unconditional>

</hop>

<hop>

  <from>Verifica se deve fazer carga parcial pela data inicio</from>

  <to>CompararEstruturaFonteBanco</to>

  <from_nr>0</from_nr>

  <to_nr>0</to_nr>

  <enabled>Y</enabled>

  <evaluation>Y</evaluation>

  <unconditional>N</unconditional>

</hop>

<hop>

  <from>CompararEstruturaFonteBanco</from>

  <to>Verifica resultado da compara&#xe7;&#xe3;o dos campos</to>

  <from_nr>0</from_nr>

  <to_nr>0</to_nr>
```

```
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        <evaluation>Y</evaluation>

        <unconditional>N</unconditional>

    </hop>

    <hop>

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        <to>Deletar por data inicio e data fim</to>

        <from_nr>0</from_nr>

        <to_nr>0</to_nr>

        <enabled>Y</enabled>

        <evaluation>Y</evaluation>

        <unconditional>N</unconditional>

    </hop>

    <hop>

        <from>Verifica resultado da compara&#xe7;&#xe3;o dos campos</from>

        <to>Dropar tabela fonte dados</to>

        <from_nr>0</from_nr>

        <to_nr>0</to_nr>

        <enabled>Y</enabled>

        <evaluation>N</evaluation>

        <unconditional>N</unconditional>

    </hop>

    <hop>
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```xml
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    <to>Cria tabela fonte de dados</to>

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    <to_nr>0</to_nr>

    <enabled>Y</enabled>

    <evaluation>Y</evaluation>

    <unconditional>N</unconditional>

</hop>

<hop>

    <from>START</from>

    <to>ObterEstruturaFonteDados</to>

    <from_nr>0</from_nr>

    <to_nr>0</to_nr>

    <enabled>Y</enabled>

    <evaluation>Y</evaluation>

    <unconditional>Y</unconditional>

</hop>

<hop>

    <from>Cria tabela fonte de dados</from>

    <to>Success</to>

    <from_nr>0</from_nr>

    <to_nr>0</to_nr>

    <enabled>Y</enabled>
```

```
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            <unconditional>N</unconditional>

        </hop>

        <hop>

            <from>Deletar por data inicio e data fim</from>

            <to>Success</to>

            <from_nr>0</from_nr>

            <to_nr>0</to_nr>

            <enabled>Y</enabled>

            <evaluation>Y</evaluation>

            <unconditional>N</unconditional>

        </hop>

    </hops>

    <notepads>

    </notepads>


    </job>
```

DefinirVariaveis.ktr

```
<tr
ans
for
mat
ion
>

        <info>

            <name>DefinirVariaveis</name>
```

```xml
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<trans_status>0</trans_status>

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<parameters>

</parameters>

<log>

<trans-log-table><connection/>

<schema/>

<table/>

<size_limit_lines/>

<interval/>

<timeout_days/>

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<perf-log-table><connection/>

<schema/>

<table/>

<interval/>

<timeout_days/>

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<schema/>

<table/>

<timeout_days/>

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field><field><id>OBJECT_NAME</id><enabled>Y</enabled><name>OBJECT_NAME</name></field><field><id>ROOT_CHANNEL_ID</id><enabled>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

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<schema/>

<table/>

<timeout_days/>

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<schema/>

<table/>

<timeout_days/>

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id>METRICS_CODE</id><enabled>Y</enabled><name>METRICS_CODE</name></field><field></field></metrics-log-table>

      </log>

      <maxdate>

        <connection/>

        <table/>

        <field/>

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        <maxdiff>0.0</maxdiff>

      </maxdate>

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      <sleep_time_full>50</sleep_time_full>

      <unique_connections>N</unique_connections>

      <feedback_shown>Y</feedback_shown>

      <feedback_size>50000</feedback_size>

      <using_thread_priorities>Y</using_thread_priorities>

      <shared_objects_file/>

      <capture_step_performance>N</capture_step_performance>

      <step_performance_capturing_delay>1000</step_performance_capturing_delay>

```xml
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        </dependencies>

        <partitionschemas>

        </partitionschemas>

        <slaveservers>

        </slaveservers>

        <clusterschemas>

        </clusterschemas>

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    <created_date>2017&#x2f;03&#x2f;06 04&#x3a;43&#x3a;35.258</created_date>

    <modified_user>-</modified_user>

    <modified_date>2017&#x2f;05&#x2f;13 14&#x3a;33&#x3a;19.886</modified_date>


<key_for_session_key>H4sIAAAAAAAAAMAAAAAAAAAAAA&#x3d;</key_for_session_key>

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    </info>

    <notepads>

    </notepads>

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        <server>&#x24;&#x7b;MONITORAMENTO_PDE_HOST&#x7d;</server>

        <type>POSTGRESQL</type>

        <access>Native</access>
```

```
            <database>&#x24;&#x7b;MONITORAMENTO_PDE_BANCO&#x7d;</database>

            <port>&#x24;&#x7b;MONITORAMENTO_PDE_PORTA&#x7d;</port>

            <username>&#x24;&#x7b;MONITORAMENTO_PDE_USUARIO&#x7d;</username>

            <password>&#x24;&#x7b;MONITORAMENTO_PDE_SENHA&#x7d;</password>

            <servername/>

            <data_tablespace/>

            <index_tablespace/>

            <attributes>
```

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</attribute>
```

```
<attribute><code>FORCE_IDENTIFIERS_TO_UPPERCASE</code><attribute>N</attribute>
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```

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        <attribute><code>IS_CLUSTERED</code><attribute>N</attribute></attribute>
```

```
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RTA&#x7d;</attribute></attribute>
```

```
<attribute><code>PRESERVE_RESERVED_WORD_CASE</code><attribute>Y</attribute></a
ttribute>
```

```
<attribute><code>QUOTE_ALL_FIELDS</code><attribute>N</attribute></attribute>
```

```
<attribute><code>SUPPORTS_BOOLEAN_DATA_TYPE</code><attribute>Y</attribute></at
tribute>
```

```
<attribute><code>SUPPORTS_TIMESTAMP_DATA_TYPE</code><attribute>Y</attribute></
attribute>
```

```
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```

```xml
      </attributes>

    </connection>

    <order>

    <hop> <from>Input cadastro fonte dados</from><to>Definir
vari&#xe1;veis</to><enabled>Y</enabled> </hop>

    </order>

    <step>

      <name>Definir vari&#xe1;veis</name>

      <type>SetVariable</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

      <fields>

        <field>

          <field_name>delimitador</field_name>

          <variable_name>DELIMITADOR</variable_name>

          <variable_type>PARENT_JOB</variable_type>

          <default_value/>
```

```xml
        </field>

      <field>

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        <variable_name>LINHA_CABECALHO</variable_name>

        <variable_type>PARENT_JOB</variable_type>

        <default_value/>

        </field>

      <field>

        <field_name>nome_tabela</field_name>

        <variable_name>NOME_TABELA</variable_name>

        <variable_type>PARENT_JOB</variable_type>

        <default_value/>

        </field>

      <field>

        <field_name>script_sql</field_name>

        <variable_name>SCRIPT_SQL</variable_name>

        <variable_type>PARENT_JOB</variable_type>

        <default_value/>

        </field>

      </fields>

    <use_formatting>Y</use_formatting>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
   <GUI>
```

```xml
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      <yloc>400</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Input cadastro fonte dados</name>

    <type>TableInput</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

        </partitioning>

    <connection>MonitoramentoPDE_PostgreSQL</connection>

    <sql>SELECT &#x2a; FROM sistema.fonte_dados WHERE id_fonte_dados &#x3d;
&#x24;&#x7b;ID_FONTE_DADOS&#x7d;</sql>

    <limit>0</limit>

    <lookup/>

    <execute_each_row>N</execute_each_row>
```

```xml
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      <lazy_conversion_active>N</lazy_conversion_active>

       <cluster_schema/>

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        <yloc>400</yloc>

        <draw>Y</draw>

        </GUI>

      </step>



    <step_error_handling>

    </step_error_handling>

     <slave-step-copy-partition-distribution>

</slave-step-copy-partition-distribution>

      <slave_transformation>N</slave_transformation>



      </transformation>
```

ExtrairDataNomeArquivo.ktr

```xml
<tr
ans
for
mat
ion
>

        <info>
```

```
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<extended_description/>

<trans_version/>

<trans_type>Normal</trans_type>

<trans_status>0</trans_status>

<directory>&#x2f;</directory>

<parameters>

</parameters>

<log>

<trans-log-table><connection/>

<schema/>

<table/>

<size_limit_lines/>

<interval/>

<timeout_days/>

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```

enabled><name>LOGDATE</name></field><field><id>CLIENT</id><enabled>N</e
nabled><name>CLIENT</name></field></trans-log-table>

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<schema/>

<table/>

<interval/>

<timeout_days/>

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<schema/>

<table/>

<timeout_days/>

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LOGGING_OBJECT_TYPE</id><enabled>Y</enabled><name>LOGGING_OBJECT_TYPE</name></field><field><id>ROOT_CHANNEL_ID</id><enabled>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

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<schema/>

<table/>

<timeout_days/>

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<schema/>

<table/>

<timeout_days/>

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METRICS_DATE</id><enabled>Y</enabled><name>METRICS_DATE</name></field><field></field></metrics-log-table>

    </log>

    <maxdate>

      <connection/>

      <table/>

      <field/>

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    </maxdate>

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    <sleep_time_full>50</sleep_time_full>

    <unique_connections>N</unique_connections>

    <feedback_shown>Y</feedback_shown>

    <feedback_size>50000</feedback_size>

    <using_thread_priorities>Y</using_thread_priorities>

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    <step_performance_capturing_delay>1000</step_performance_capturing_delay>

<step_performance_capturing_size_limit>100</step_performance_capturing_size_li

```xml
mit>

    <dependencies>

    </dependencies>

    <partitionschemas>

    </partitionschemas>

    <slaveservers>

    </slaveservers>

    <clusterschemas>

    </clusterschemas>

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  <modified_user>-</modified_user>

  <modified_date>2016&#x2f;08&#x2f;02 15&#x3a;15&#x3a;39.239</modified_date>


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    <is_key_private>N</is_key_private>

  </info>

  <notepads>

  </notepads>

  <order>

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valor da data</to><enabled>Y</enabled> </hop>

  <hop> <from>Extrair a data por Regex</from><to>Extrair o formato da data por
Regex</to><enabled>Y</enabled> </hop>

  <hop> <from>Extrair o formato da data por Regex</from><to>Converter formato
```

data para internacional</to><enabled>Y</enabled> </hop>

  <hop> <from>Converte o valor da data</from><to>Especificacao Mapping output</to><enabled>Y</enabled> </hop>

  <hop> <from>Teste Extrair a data por Regex</from><to>Teste extrair o formato da data por Regex</to><enabled>N</enabled> </hop>

  <hop> <from>Extrair a data por Regex</from><to>Teste Extrair a data por Regex</to><enabled>N</enabled> </hop>

  <hop> <from>Teste extrair o formato da data por Regex</from><to>Converter formato data para internacional</to><enabled>N</enabled> </hop>

  <hop> <from>Verifica se insere a data do arquivo</from><to>Adiciona data nula</to><enabled>Y</enabled> </hop>

  <hop> <from>Especificacao Mapping input</from><to>Verifica se insere a data do arquivo</to><enabled>Y</enabled> </hop>

  <hop> <from>Verifica se insere a data do arquivo</from><to>Extrair a data por Regex</to><enabled>Y</enabled> </hop>

  <hop> <from>Adiciona data nula</from><to>Especificacao Mapping output</to><enabled>Y</enabled> </hop>

  </order>

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    <type>Constant</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

```xml
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      </partitioning>

    <fields>

      <field>

        <name>DataArquivo</name>

        <type>Date</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

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        <length>-1</length>

        <precision>-1</precision>

        <set_empty_string>N</set_empty_string>

      </field>

    </fields>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>576</xloc>

      <yloc>656</yloc>

      <draw>Y</draw>

      </GUI>

    </step>
```

```xml
<step>

    <name>Converte o valor da data</name>

    <type>ScriptValueMod</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

    <compatible>N</compatible>

    <optimizationLevel>9</optimizationLevel>

    <jsScripts>      <jsScript>         <jsScript_type>0</jsScript_type>

        <jsScript_name>Script 1</jsScript_name>

        <jsScript_script>&#x2f;&#x2f;Script here&#xd;&#xa;&#xd;&#xa;var
DataArquivo&#xd;&#xa;&#xd;&#xa;DataArquivo &#x3d;
str2date&#x28;DataArquivo,FormatoDataArquivo&#x29;&#x3b;</jsScript_script>

    </jsScript>    </jsScripts>    <fields>      <field>
<name>DataArquivo</name>

        <rename>DataArquivo</rename>

        <type>Date</type>

        <length>-1</length>
```

```xml
        <precision>-1</precision>

        <replace>Y</replace>

      </field>    </fields>      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>368</xloc>

      <yloc>544</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Converter formato data para internacional</name>

    <type>ReplaceString</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

    <fields>

      <field>
```

```xml
      <in_stream_name>FormatoDataArquivo</in_stream_name>

      <out_stream_name/>

      <use_regex>no</use_regex>

      <replace_string>AA</replace_string>

      <replace_by_string>yy</replace_by_string>

      <set_empty_string>N</set_empty_string>

      <replace_field_by_string/>

      <whole_word>no</whole_word>

      <case_sensitive>no</case_sensitive>

    </field>

    <field>

      <in_stream_name>FormatoDataArquivo</in_stream_name>

      <out_stream_name/>

      <use_regex>no</use_regex>

      <replace_string>DD</replace_string>

      <replace_by_string>dd</replace_by_string>

      <set_empty_string>N</set_empty_string>

      <replace_field_by_string/>

      <whole_word>no</whole_word>

      <case_sensitive>no</case_sensitive>

    </field>

  </fields>

  <cluster_schema/>
```

```xml
        <remotesteps>    <input>    </input>    <output>    </output> </remotesteps>
<GUI>

        <xloc>368</xloc>

        <yloc>432</yloc>

        <draw>Y</draw>

        </GUI>

    </step>


  <step>

    <name>Especificacao Mapping input</name>

    <type>MappingInput</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

    <fields>

      <field>

        <name>short_filename</name>

        <type>String</type>
```

```xml
        <length>-1</length>

        <precision>-1</precision>

      </field>

      <field>

        <name>FormatoArquivo</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

      </field>

      <select_unspecified>Y</select_unspecified>

    </fields>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>576</xloc>

      <yloc>112</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Especificacao Mapping output</name>

    <type>MappingOutput</type>

    <description/>
```

```xml
        <distribute>Y</distribute>

        <custom_distribution/>

        <copies>1</copies>

            <partitioning>

                <method>none</method>

                <schema_name/>

                </partitioning>

        <cluster_schema/>

    <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

            <xloc>368</xloc>

            <yloc>656</yloc>

            <draw>Y</draw>

            </GUI>

        </step>


    <step>

        <name>Extrair a data por Regex</name>

        <type>RegexEval</type>

        <description/>

        <distribute>Y</distribute>

        <custom_distribution/>

        <copies>1</copies>
```

```xml
      <partitioning>

        <method>none</method>

        <schema_name/>

      </partitioning>

    <script><![CDATA[${FORMATO_ARQUIVO_REGEX}]]></script>
<matcher>short_filename</matcher>

    <resultfieldname/>

    <usevar>Y</usevar>

    <allowcapturegroups>Y</allowcapturegroups>

    <replacefields>N</replacefields>

    <canoneq>N</canoneq>

    <caseinsensitive>Y</caseinsensitive>

    <comment>N</comment>

    <dotall>N</dotall>

    <multiline>N</multiline>

    <unicode>N</unicode>

    <unix>N</unix>

    <fields>

      <field>

        <name>DataArquivo</name>

        <type>Number</type>

        <format/>

        <group/>

        <decimal/>
```

```
        <length>-1</length>

        <precision>-1</precision>

        <nullif/>

        <ifnull/>

        <trimtype>none</trimtype>

      </field>

    </fields>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>368</xloc>

      <yloc>224</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Extrair o formato da data por Regex</name>

    <type>RegexEval</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>
```

```xml
      <partitioning>

        <method>none</method>

        <schema_name/>

      </partitioning>

    <script><![CDATA[${FORMATO_DATA_ARQUIVO_REGEX}]]></script>
<matcher>FormatoArquivo</matcher>

    <resultfieldname/>

    <usevar>Y</usevar>

    <allowcapturegroups>Y</allowcapturegroups>

    <replacefields>N</replacefields>

    <canoneq>N</canoneq>

    <caseinsensitive>Y</caseinsensitive>

    <comment>N</comment>

    <dotall>N</dotall>

    <multiline>N</multiline>

    <unicode>N</unicode>

    <unix>N</unix>

    <fields>

      <field>

        <name>FormatoDataArquivo</name>

        <type>String</type>

        <format/>

        <group/>

        <decimal/>
```

```xml
            <length>-1</length>

            <precision>-1</precision>

            <nullif/>

            <ifnull/>

            <trimtype>none</trimtype>

          </field>

      </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>368</xloc>

        <yloc>336</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Teste Extrair a data por Regex</name>

      <type>RegexEval</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>
```

```xml
      <partitioning>

        <method>none</method>

        <schema_name/>

      </partitioning>

    <script><![CDATA[TAB_DCFSP_NOTIFICADOS_([0-9]*)\.xlsx]]></script>
  <matcher>short_filename</matcher>

    <resultfieldname/>

    <usevar>N</usevar>

    <allowcapturegroups>Y</allowcapturegroups>

    <replacefields>N</replacefields>

    <canoneq>N</canoneq>

    <caseinsensitive>Y</caseinsensitive>

    <comment>N</comment>

    <dotall>N</dotall>

    <multiline>N</multiline>

    <unicode>N</unicode>

    <unix>N</unix>

    <fields>

      <field>

        <name>DataArquivo</name>

        <type>Number</type>

        <format/>

        <group/>

        <decimal/>
```

```
          <length>-1</length>

          <precision>-1</precision>

          <nullif/>

          <ifnull/>

          <trimtype>none</trimtype>

        </field>

      </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>169</xloc>

        <yloc>287</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Teste extrair o formato da data por Regex</name>

      <type>RegexEval</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>
```

```xml
      <partitioning>

        <method>none</method>

        <schema_name/>

      </partitioning>

    <script><![CDATA[TAB_DCFSP_NOTIFICADOS_([AMD]*)\.xlsx]]></script>
  <matcher>FormatoArquivo</matcher>

    <resultfieldname/>

    <usevar>Y</usevar>

    <allowcapturegroups>Y</allowcapturegroups>

    <replacefields>N</replacefields>

    <canoneq>N</canoneq>

    <caseinsensitive>Y</caseinsensitive>

    <comment>N</comment>

    <dotall>N</dotall>

    <multiline>N</multiline>

    <unicode>N</unicode>

    <unix>N</unix>

    <fields>

      <field>

        <name>FormatoDataArquivo</name>

        <type>String</type>

        <format/>

        <group/>

        <decimal/>
```

```xml
        <length>-1</length>

        <precision>-1</precision>

        <nullif/>

        <ifnull/>

        <trimtype>none</trimtype>

      </field>

    </fields>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>169</xloc>

      <yloc>399</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Verifica se insere a data do arquivo</name>

    <type>SwitchCase</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>
```

```xml
        <partitioning>

          <method>none</method>

          <schema_name/>

        </partitioning>

<fieldname>FormatoArquivo</fieldname>

<use_contains>Y</use_contains>

<case_value_type>String</case_value_type>

<case_value_format/>

<case_value_decimal/>

<case_value_group/>

<default_target_step>Adiciona data nula</default_target_step>

<cases><case><value>AA</value>

<target_step>Extrair a data por Regex</target_step>

</case><case><value>MM</value>

<target_step>Extrair a data por Regex</target_step>

</case><case><value>DD</value>

<target_step>Extrair a data por Regex</target_step>

</case></cases>      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>576</xloc>

      <yloc>224</yloc>

      <draw>Y</draw>

      </GUI>
```

```
            </step>


    <step_error_handling>

    </step_error_handling>

     <slave-step-copy-partition-distribution>

  </slave-step-copy-partition-distribution>

     <slave_transformation>N</slave_transformation>



     </transformation>
```

FiltrarArquivosPelaData.ktr

```
<tr
ans
for
mat
ion
>

        <info>

          <name>FiltrarArquivosPelaData</name>

          <description/>

          <extended_description/>

          <trans_version/>

          <trans_type>Normal</trans_type>

          <trans_status>0</trans_status>

          <directory>&#x2f;</directory>

          <parameters>
```

```
    </parameters>

    <log>

<trans-log-table><connection/>

<schema/>

<table/>

<size_limit_lines/>

<interval/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><fiel
d><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field
><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><i
d>STATUS</id><enabled>Y</enabled><name>STATUS</name></field><field><id>LINES_R
EAD</id><enabled>Y</enabled><name>LINES_READ</name><subject/></field><field><i
d>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name><subject/></
field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</na
me><subject/></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINE
S_INPUT</name><subject/></field><field><id>LINES_OUTPUT</id><enabled>Y</enable
d><name>LINES_OUTPUT</name><subject/></field><field><id>LINES_REJECTED</id><en
abled>Y</enabled><name>LINES_REJECTED</name><subject/></field><field><id>ERROR
S</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>STARTDATE</id>
<enabled>Y</enabled><name>STARTDATE</name></field><field><id>ENDDATE</id><enab
led>Y</enabled><name>ENDDATE</name></field><field><id>LOGDATE</id><enabled>Y</
enabled><name>LOGDATE</name></field><field><id>DEPDATE</id><enabled>Y</enabled
><name>DEPDATE</name></field><field><id>REPLAYDATE</id><enabled>Y</enabled><na
me>REPLAYDATE</name></field><field><id>LOG_FIELD</id><enabled>Y</enabled><name
>LOG_FIELD</name></field><field><id>EXECUTING_SERVER</id><enabled>N</enabled><
name>EXECUTING_SERVER</name></field><field><id>EXECUTING_USER</id><enabled>N</
enabled><name>EXECUTING_USER</name></field><field><id>CLIENT</id><enabled>N</e
nabled><name>CLIENT</name></field></trans-log-table>

<perf-log-table><connection/>

<schema/>

<table/>

<interval/>
```

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>SEQ_NR</id><enabled>Y</enabled><name>SEQ_NR</name></field><field><id>LOGDATE</id><enabled>Y</enabled><name>LOGDATE</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STEPNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>STEP_COPY</id><enabled>Y</enabled><name>STEP_COPY</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>INPUT_BUFFER_ROWS</id><enabled>Y</enabled><name>INPUT_BUFFER_ROWS</name></field><field><id>OUTPUT_BUFFER_ROWS</id><enabled>Y</enabled><name>OUTPUT_BUFFER_ROWS</name></field></perf-log-table>

<channel-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>LOGGING_OBJECT_TYPE</id><enabled>Y</enabled><name>LOGGING_OBJECT_TYPE</name></field><field><id>OBJECT_NAME</id><enabled>Y</enabled><name>OBJECT_NAME</name></field><field><id>OBJECT_COPY</id><enabled>Y</enabled><name>OBJECT_COPY</name></field><field><id>REPOSITORY_DIRECTORY</id><enabled>Y</enabled><name>REPOSITORY_DIRECTORY</name></field><field><id>FILENAME</id><enabled>Y</enabled><name>FILENAME</name></field><field><id>OBJECT_ID</id><enabled>Y</enabled><name>OBJECT_ID</name></field><field><id>OBJECT_REVISION</id><enabled>Y</enabled><name>OBJECT_REVISION</name></field><field><id>PARENT_CHANNEL_ID</id><enabled>Y</enabled><name>PARENT_CHANNEL_ID</name></field><field><id>ROOT_CHANNEL_ID</id><enabled>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

<step-log-table><connection/>

<schema/>

<table/>

<field><id>LOG_FIELD</id><enabled>N</enabled><name>LOG_FIELD</name></field></step-log-table>

<metrics-log-table>

<table/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>METRICS_DATE</id><enabled>Y</enabled><name>METRICS_DATE</name></field><field><id>METRICS_CODE</id><enabled>Y</enabled><name>METRICS_CODE</name></field><field><id>METRICS_DESCRIPTION</id><enabled>Y</enabled><name>METRICS_DESCRIPTION</name></field><field><id>METRICS_SUBJECT</id><enabled>Y</enabled><name>METRICS_SUBJECT</name></field><field><id>METRICS_TYPE</id><enabled>Y</enabled><name>METRICS_TYPE</name></field><field><id>METRICS_VALUE</id><enabled>Y</enabled><name>METRICS_VALUE</name></field></metrics-log-table>

    </log>

    <maxdate>

      <connection/>

      <table/>

```xml
      <field/>

      <offset>0.0</offset>

      <maxdiff>0.0</maxdiff>

    </maxdate>

    <size_rowset>10000</size_rowset>

    <sleep_time_empty>50</sleep_time_empty>

    <sleep_time_full>50</sleep_time_full>

    <unique_connections>N</unique_connections>

    <feedback_shown>Y</feedback_shown>

    <feedback_size>50000</feedback_size>

    <using_thread_priorities>Y</using_thread_priorities>

    <shared_objects_file/>

    <capture_step_performance>N</capture_step_performance>

    <step_performance_capturing_delay>1000</step_performance_capturing_delay>

<step_performance_capturing_size_limit>100</step_performance_capturing_size_limit>

    <dependencies>

    </dependencies>

    <partitionschemas>

    </partitionschemas>

    <slaveservers>

    </slaveservers>

    <clusterschemas>
```

```
        </clusterschemas>

    <created_user>-</created_user>

    <created_date>2016&#x2f;06&#x2f;02 11&#x3a;13&#x3a;40.686</created_date>

    <modified_user>-</modified_user>

    <modified_date>2016&#x2f;06&#x2f;27 11&#x3a;41&#x3a;29.364</modified_date>


<key_for_session_key>H4sIAAAAAAAAAMAAAAAAAAAAA&#x3d;</key_for_session_key>

        <is_key_private>N</is_key_private>

    </info>

    <notepads>

    </notepads>

    <order>

    <hop> <from>Filtrar pela data de in&#xed;cio e fim</from><to>Descarta
arquivos</to><enabled>Y</enabled> </hop>

    <hop> <from>Obter nome arquivos</from><to>Junta arquivos com
parametros</to><enabled>Y</enabled> </hop>

    <hop> <from>Obter data inicio e fim</from><to>Junta arquivos com
parametros</to><enabled>Y</enabled> </hop>

    <hop> <from>Decidir se faz o log de teste</from><to>Teste log nome
arquivos</to><enabled>Y</enabled> </hop>

    <hop> <from>Decidir se faz o log de teste</from><to>Retorna
arquivos</to><enabled>Y</enabled> </hop>

    <hop> <from>Filtrar pela data de in&#xed;cio e fim</from><to>Decidir se faz
o log de teste</to><enabled>Y</enabled> </hop>

    <hop> <from>Teste input filtrar data</from><to>Junta arquivos com
parametros</to><enabled>N</enabled> </hop>

    <hop> <from>Junta arquivos com
parametros</from><to>ExtrairDataNomeArquivo</to><enabled>Y</enabled> </hop>
```

```
    <hop> <from>ExtrairDataNomeArquivo</from><to>Filtrar pela data de
in&#xed;cio e fim</to><enabled>Y</enabled> </hop>

  </order>

  <step>

    <name>Decidir se faz o log de teste</name>

    <type>Dummy</type>

    <description/>

    <distribute>N</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>336</xloc>

        <yloc>512</yloc>

        <draw>Y</draw>

        </GUI>

    </step>


    <step>
```

```xml
<name>Descarta arquivos</name>

<type>Dummy</type>

<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

   <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>608</xloc>

    <yloc>400</yloc>

    <draw>Y</draw>

    </GUI>

  </step>


  <step>

  <name>ExtrairDataNomeArquivo</name>

  <type>Mapping</type>

  <description/>
```

```xml
<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<specification_method>rep_name</specification_method>

<trans_object_id/>

<trans_name>ExtrairDataNomeArquivo</trans_name>

<filename/>

<directory_path>&#x2f;</directory_path>

<mappings>

  <input>

<mapping>    <input_step/>

<output_step/>

<main_path>Y</main_path>

<rename_on_output>Y</rename_on_output>

<description/>

</mapping>      </input>

  <output>

<mapping>    <input_step/>

<output_step/>
```

```xml
        <main_path>Y</main_path>

        <rename_on_output>N</rename_on_output>

        <description/>

        </mapping>        </output>

            <parameters>      <inherit_all_vars>Y</inherit_all_vars>

        </parameters>

        </mappings>

        <allow_multiple_input>N</allow_multiple_input>

        <allow_multiple_output>N</allow_multiple_output>

         <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

            <xloc>336</xloc>

            <yloc>304</yloc>

            <draw>Y</draw>

            </GUI>

        </step>


    <step>

        <name>Filtrar pela data de in&#xed;cio e fim</name>

        <type>FilterRows</type>

        <description/>

        <distribute>Y</distribute>

        <custom_distribution/>
```

```xml
          <copies>1</copies>

               <partitioning>

                    <method>none</method>

                    <schema_name/>

               </partitioning>

<send_true_to>Decidir se faz o log de teste</send_true_to>

<send_false_to>Descarta arquivos</send_false_to>

          <compare>

<condition>

 <negated>N</negated>

 <conditions>

  <condition>

   <negated>N</negated>

   <leftvalue>DataArquivo</leftvalue>

   <function>&#x3e;&#x3d;</function>

   <rightvalue>DataInicio</rightvalue>

   </condition>

  <condition>

   <negated>N</negated>

   <operator>AND</operator>

   <leftvalue>DataArquivo</leftvalue>

   <function>&#x3c;&#x3d;</function>

   <rightvalue>DataFim</rightvalue>
```

```xml
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      </conditions>

    </condition>

        </compare>

        <cluster_schema/>

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        <yloc>400</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

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      <type>JoinRows</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

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            <method>none</method>

            <schema_name/>
```

```
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      <prefix>out</prefix>

      <cache_size>500</cache_size>

      <main>Obter nome arquivos</main>

    <compare>

<condition>

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 <leftvalue/>

 <function>&#x3d;</function>

 <rightvalue/>

 </condition>

    </compare>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
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      <yloc>208</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Obter data inicio e fim</name>
```

```xml
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<description/>

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<custom_distribution/>

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      <schema_name/>

      </partitioning>

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    <variable>&#x24;&#x7b;DATA_INICIO&#x7d;</variable>

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    <format>yyyyMMdd</format>

    <currency/>

    <decimal/>

    <group/>

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    <precision>-1</precision>

    <trim_type>none</trim_type>

  </field>

  <field>
```

```xml
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            <type>Date</type>

            <format>yyyyMMdd</format>

            <currency/>

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    </fields>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
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        <yloc>96</yloc>

        <draw>Y</draw>

        </GUI>

    </step>


    <step>

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```

```xml
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<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

    </partitioning>
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    <length>-1</length>

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    </field>       <field>          <name>short_filename</name>

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    <type>String</type>
```

```xml
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<custom_distribution/>

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<partitioning>

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```

```
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      </GUI>

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  <decimal/>

  <group/>

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  <precision>-1</precision>

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  <decimal/>

  <group/>

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```

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        <decimal/>

        <group/>

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        <precision>-1</precision>

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      <field>

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        <decimal/>

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      </GUI>

    </step>

  <step>

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    <custom_distribution/>

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          <schema_name/>

          </partitioning>

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    <enclosure>&#x22;</enclosure>

    <enclosure_forced>N</enclosure_forced>

    <enclosure_fix_disabled>N</enclosure_fix_disabled>

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    <footer>N</footer>

    <format>DOS</format>

    <compression>None</compression>

    <encoding>windows-1252</encoding>

    <endedLine/>

    <fileNameInField>N</fileNameInField>

    <fileNameField/>

    <create_parent_folder>Y</create_parent_folder>

    <file>

<name>C&#x3a;&#x5c;Pentaho&#x5c;Teste&#x5c;Log&#x5c;ListarArquivosResultRows</name>

      <is_command>N</is_command>

      <servlet_output>N</servlet_output>

      <do_not_open_new_file_init>N</do_not_open_new_file_init>
```

```xml
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        <append>N</append>

        <split>N</split>

        <haspartno>N</haspartno>

        <add_date>N</add_date>

        <add_time>N</add_time>

        <SpecifyFormat>N</SpecifyFormat>

        <date_time_format/>

        <add_to_result_filenames>Y</add_to_result_filenames>

        <pad>N</pad>

        <fast_dump>N</fast_dump>

        <splitevery>0</splitevery>

    </file>

    <fields>

        <field>

            <name>short_filename</name>

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            <format/>

            <currency/>

            <decimal/>

            <group/>

            <nullif/>

            <trim_type>none</trim_type>
```

```xml
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  </field>

  <field>

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      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif/>

      <trim_type>none</trim_type>

      <length>-1</length>

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      <name>DataArquivo</name>

      <type>Date</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif/>
```

```xml
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        </field>

      </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
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          <draw>Y</draw>

        </GUI>

      </step>


    <step_error_handling>

    </step_error_handling>

     <slave-step-copy-partition-distribution>

</slave-step-copy-partition-distribution>

      <slave_transformation>N</slave_transformation>


    </transformation>
```

GravarDataAtualizacao.ktr

```xml
<tr
ans
for
```

mat
ion
>

          <info>

            <name>GravarDataAtualizacao</name>

            <description/>

            <extended_description/>

            <trans_version/>

            <trans_type>Normal</trans_type>

            <trans_status>0</trans_status>

            <directory>/</directory>

            <parameters>

            </parameters>

            <log>

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      <schema/>

      <table/>

      <size_limit_lines/>

      <interval/>

      <timeout_days/>

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S_INPUT</name><subject/></field><field><id>CLIENT</id><enabled>N</e
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<perf-log-table><connection/>

<schema/>

<table/>

<interval/>

<timeout_days/>

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<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>LOGGING_OBJECT_TYPE</id><enabled>Y</enabled><name>LOGGING_OBJECT_TYPE</name></field><field><id>OBJECT_NAME</id><enabled>Y</enabled><name>OBJECT_NAME</name></field><field><id>OBJECT_COPY</id><enabled>Y</enabled><name>OBJECT_COPY</name></field><field><id>REPOSITORY_DIRECTORY</id><enabled>Y</enabled><name>REPOSITORY_DIRECTORY</name></field><field><id>FILENAME</id><enabled>Y</enabled><name>FILENAME</name></field><field><id>OBJECT_ID</id><enabled>Y</enabled><name>OBJECT_ID</name></field><field><id>OBJECT_REVISION</id><enabled>Y</enabled><name>OBJECT_REVISION</name></field><field><id>PARENT_CHANNEL_ID</id><enabled>Y</enabled><name>PARENT_CHANNEL_ID</name></field><field><id>ROOT_CHANNEL_ID</id><enabled>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

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<schema/>

<table/>

<timeout_days/>

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<schema/>

<table/>

```
<timeout_days/>

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    </log>

    <maxdate>

      <connection/>

      <table/>

      <field/>

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      <maxdiff>0.0</maxdiff>

    </maxdate>

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    <sleep_time_full>50</sleep_time_full>

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      </dependencies>

      <partitionschemas>

      </partitionschemas>

      <slaveservers>

      </slaveservers>

      <clusterschemas>

      </clusterschemas>

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    <created_date>2016&#x2f;12&#x2f;04 07&#x3a;09&#x3a;53.855</created_date>

    <modified_user>-</modified_user>

    <modified_date>2017&#x2f;03&#x2f;10 19&#x3a;51&#x3a;42.351</modified_date>


<key_for_session_key>H4sIAAAAAAAAAMAAAAAAAAAAA&#x3d;</key_for_session_key>

      <is_key_private>N</is_key_private>

    </info>

    <notepads>

    </notepads>

    <connection>

      <name>MonitoramentoPDE_PostgreSQL</name>
```

```
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<type>POSTGRESQL</type>

<access>Native</access>

<database>&#x24;&#x7b;MONITORAMENTO_PDE_BANCO&#x7d;</database>

<port>&#x24;&#x7b;MONITORAMENTO_PDE_PORTA&#x7d;</port>

<username>&#x24;&#x7b;MONITORAMENTO_PDE_USUARIO&#x7d;</username>

<password>&#x24;&#x7b;MONITORAMENTO_PDE_SENHA&#x7d;</password>

<servername/>

<data_tablespace/>

<index_tablespace/>

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```

```
<attribute><code>FORCE_IDENTIFIERS_TO_LOWERCASE</code><attribute>N</attribute>
</attribute>
```

```
<attribute><code>FORCE_IDENTIFIERS_TO_UPPERCASE</code><attribute>N</attribute>
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```
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RTA&#x7d;</attribute></attribute>
```

```
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ttribute>
```

```
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```

```
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```

tribute>

<attribute><code>SUPPORTS_TIMESTAMP_DATA_TYPE</code><attribute>Y</attribute></attribute>

    <attribute><code>USE_POOLING</code><attribute>N</attribute></attribute>

  </attributes>

 </connection>

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 <hop> <from>Data da carga</from><to>Obter nome da tabela</to><enabled>Y</enabled> </hop>

 </order>

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  <type>SystemInfo</type>

  <description/>

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  <custom_distribution/>

  <copies>1</copies>

    <partitioning>

     <method>none</method>

     <schema_name/>

    </partitioning>

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```xml
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        </field>

      </fields>

    <cluster_schema/>

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      <yloc>160</yloc>

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      </GUI>

    </step>


  <step>

    <name>Obter nome da tabela</name>

    <type>GetVariable</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>
```

```xml
        </partitioning>

      <fields>

        <field>

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          <format/>

          <currency/>

          <decimal/>

          <group/>

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          <precision>-1</precision>

          <trim_type>none</trim_type>

        </field>

      </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
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        <yloc>160</yloc>

        <draw>Y</draw>

        </GUI>

      </step>
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  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

  <connection>MonitoramentoPDE_PostgreSQL</connection>

  <skip_lookup>N</skip_lookup>

  <commit>100</commit>

  <use_batch>N</use_batch>

  <error_ignored>N</error_ignored>

  <ignore_flag_field/>

  <lookup>

    <schema>sistema</schema>

    <table>fonte_dados</table>

    <key>

      <name>NOME_TABELA</name>
```

```xml
          <field>nome_tabela</field>

          <condition>&#x3d;</condition>

          <name2/>

          </key>

        <value>

          <name>data_carga</name>

          <rename>data_carga</rename>

          </value>

        </lookup>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>432</xloc>

        <yloc>272</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step_error_handling>

    </step_error_handling>

      <slave-step-copy-partition-distribution>

</slave-step-copy-partition-distribution>

      <slave_transformation>N</slave_transformation>
```

```
</transformation>
```

InputDadosTexto.ktr

```
<tr
ans
for
mat
ion
>

        <info>

            <name>InputDadosTexto</name>

            <description/>

            <extended_description/>

            <trans_version/>

            <trans_type>Normal</trans_type>

            <trans_status>0</trans_status>

            <directory>&#x2f;</directory>

            <parameters>

            </parameters>

            <log>

    <trans-log-table><connection/>

    <schema/>

    <table/>

    <size_limit_lines/>

    <interval/>

    <timeout_days/>
```

<field><id>CLIENT</id><enabled>N</enabled><name>CLIENT</name></field></trans-log-table>

<perf-log-table>

<table/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>SEQ_NR</id><enabled>Y</enabled><name>SEQ_NR</name></field><field><id>LOGDATE</id><enabled>Y</enabled><name>LOGDATE</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STEPNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>STEP_COPY</id><enabled>Y</enabled><name>STEP_COPY</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>INPUT_BUFF

ER_ROWS</id><enabled>Y</enabled><name>INPUT_BUFFER_ROWS</name></field><field><id>OUTPUT_BUFFER_ROWS</id><enabled>Y</enabled><name>OUTPUT_BUFFER_ROWS</name></field></perf-log-table>

<channel-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>LOGGING_OBJECT_TYPE</id><enabled>Y</enabled><name>LOGGING_OBJECT_TYPE</name></field><field><id>OBJECT_NAME</id><enabled>Y</enabled><name>OBJECT_NAME</name></field><field><id>OBJECT_COPY</id><enabled>Y</enabled><name>OBJECT_COPY</name></field><field><id>REPOSITORY_DIRECTORY</id><enabled>Y</enabled><name>REPOSITORY_DIRECTORY</name></field><field><id>FILENAME</id><enabled>Y</enabled><name>FILENAME</name></field><field><id>OBJECT_ID</id><enabled>Y</enabled><name>OBJECT_ID</name></field><field><id>OBJECT_REVISION</id><enabled>Y</enabled><name>OBJECT_REVISION</name></field><field><id>PARENT_CHANNEL_ID</id><enabled>Y</enabled><name>PARENT_CHANNEL_ID</name></field><field><id>ROOT_CHANNEL_ID</id><enabled>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

<step-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STEPNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>STEP_COPY</id><enabled>Y</enabled><name>STEP_COPY</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><f

ield><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>LOG_FIELD</id><enabled>N</enabled><name>LOG_FIELD</name></field></step-log-table>

<metrics-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>METRICS_DATE</id><enabled>Y</enabled><name>METRICS_DATE</name></field><field><id>METRICS_CODE</id><enabled>Y</enabled><name>METRICS_CODE</name></field><field><id>METRICS_DESCRIPTION</id><enabled>Y</enabled><name>METRICS_DESCRIPTION</name></field><field><id>METRICS_SUBJECT</id><enabled>Y</enabled><name>METRICS_SUBJECT</name></field><field><id>METRICS_TYPE</id><enabled>Y</enabled><name>METRICS_TYPE</name></field><field><id>METRICS_VALUE</id><enabled>Y</enabled><name>METRICS_VALUE</name></field></metrics-log-table>

    </log>

    <maxdate>

      <connection/>

      <table/>

      <field/>

      <offset>0.0</offset>

      <maxdiff>0.0</maxdiff>

    </maxdate>

    <size_rowset>10000</size_rowset>

    <sleep_time_empty>50</sleep_time_empty>

    <sleep_time_full>50</sleep_time_full>

    N

```xml
<feedback_shown>Y</feedback_shown>

<feedback_size>50000</feedback_size>

<using_thread_priorities>Y</using_thread_priorities>

<shared_objects_file/>

<capture_step_performance>N</capture_step_performance>

<step_performance_capturing_delay>1000</step_performance_capturing_delay>

<step_performance_capturing_size_limit>100</step_performance_capturing_size_limit>

<dependencies>

</dependencies>

<partitionschemas>

</partitionschemas>

<slaveservers>

</slaveservers>

<clusterschemas>

</clusterschemas>

<created_user>-</created_user>

<created_date>2016&#x2f;06&#x2f;04 18&#x3a;56&#x3a;49.006</created_date>

<modified_user>-</modified_user>

<modified_date>2016&#x2f;07&#x2f;29 19&#x3a;14&#x3a;24.853</modified_date>

<key_for_session_key>H4sIAAAAAAAAAMAAAAAAAAAAA&#x3d;</key_for_session_key>

<is_key_private>N</is_key_private>
```

```xml
      </info>

      <notepads>

      </notepads>

      <connection>

        <name>MonitoramentoPDE_PostgreSQL</name>

        <server>&#x24;&#x7b;MONITORAMENTO_PDE_HOST&#x7d;</server>

        <type>POSTGRESQL</type>

        <access>Native</access>

        <database>&#x24;&#x7b;MONITORAMENTO_PDE_BANCO&#x7d;</database>

        <port>&#x24;&#x7b;MONITORAMENTO_PDE_PORTA&#x7d;</port>

        <username>&#x24;&#x7b;MONITORAMENTO_PDE_USUARIO&#x7d;</username>

        <password>&#x24;&#x7b;MONITORAMENTO_PDE_SENHA&#x7d;</password>

        <servername/>

        <data_tablespace/>

        <index_tablespace/>

        <attributes>

<attribute><code>FORCE_IDENTIFIERS_TO_LOWERCASE</code><attribute>N</attribute>
</attribute>

<attribute><code>FORCE_IDENTIFIERS_TO_UPPERCASE</code><attribute>N</attribute>
</attribute>

        <attribute><code>IS_CLUSTERED</code><attribute>N</attribute></attribute>

<attribute><code>PORT_NUMBER</code><attribute>&#x24;&#x7b;MONITORAMENTO_PDE_PO
RTA&#x7d;</attribute></attribute>
```

```
<attribute><code>PRESERVE_RESERVED_WORD_CASE</code><attribute>Y</attribute></a
ttribute>

<attribute><code>QUOTE_ALL_FIELDS</code><attribute>N</attribute></attribute>

<attribute><code>SUPPORTS_BOOLEAN_DATA_TYPE</code><attribute>Y</attribute></at
tribute>

<attribute><code>SUPPORTS_TIMESTAMP_DATA_TYPE</code><attribute>Y</attribute></
attribute>

      <attribute><code>USE_POOLING</code><attribute>N</attribute></attribute>

    </attributes>

  </connection>

  <order>

  <hop> <from>Formatar colunas de data e num&#xe9;ricas</from><to>Carga da
tabela</to><enabled>Y</enabled> </hop>

  <hop> <from>Formatar colunas de data e num&#xe9;ricas</from><to>Log erros
convers&#xe3;o de data</to><enabled>Y</enabled> </hop>

  <hop> <from>Formatar colunas de data e num&#xe9;ricas</from><to>Log texto
erros convers&#xe3;o de data</to><enabled>N</enabled> </hop>

  <hop> <from>Mapping &#x28;AgregarMetadadosArquivo&#x29;</from><to>Formatar
colunas de data e num&#xe9;ricas</to><enabled>Y</enabled> </hop>

  <hop> <from>Input Arquivo</from><to>Mapping
&#x28;AgregarMetadadosArquivo&#x29;</to><enabled>Y</enabled> </hop>

  </order>

  <step>

    <name>Input Arquivo</name>

    <type>TextFileInput</type>
```

```xml
<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<accept_filenames>N</accept_filenames>

<passing_through_fields>N</passing_through_fields>

<accept_field/>

<accept_stepname/>

<separator>&#x24;&#x7b;DELIMITADOR&#x7d;</separator>

<enclosure/>

<enclosure_breaks>N</enclosure_breaks>

<escapechar/>

<header>N</header>

<nr_headerlines>1</nr_headerlines>

<footer>N</footer>

<nr_footerlines>1</nr_footerlines>

<line_wrapped>N</line_wrapped>

<nr_wraps>1</nr_wraps>

<layout_paged>N</layout_paged>
```

```xml
<nr_lines_per_page>80</nr_lines_per_page>

<nr_lines_doc_header>0</nr_lines_doc_header>

<noempty>N</noempty>

<include>N</include>

<include_field/>

<rownum>N</rownum>

<rownumByFile>N</rownumByFile>

<rownum_field/>

<format>mixed</format>

<encoding/>

<add_to_result_filenames>N</add_to_result_filenames>

<file>

  <name/>

  <filemask/>

  <exclude_filemask/>

  <file_required>N</file_required>

  <include_subfolders>N</include_subfolders>

  <type>CSV</type>

  <compression>None</compression>

</file>

<filters>

</filters>

<fields>
```

```xml
</fields>

<limit>0</limit>

<error_ignored>N</error_ignored>

<skip_bad_files>N</skip_bad_files>

<file_error_field/>

<file_error_message_field/>

<error_line_skipped>N</error_line_skipped>

<error_count_field/>

<error_fields_field/>

<error_text_field/>

<bad_line_files_destination_directory/>

<bad_line_files_extension>warning</bad_line_files_extension>

<error_line_files_destination_directory/>

<error_line_files_extension>error</error_line_files_extension>

<line_number_files_destination_directory/>

<line_number_files_extension>line</line_number_files_extension>

<date_format_lenient>N</date_format_lenient>

<date_format_locale>pt_BR</date_format_locale>

<shortFileFieldName/>

<pathFieldName/>

<hiddenFieldName/>

<lastModificationTimeFieldName/>

<uriNameFieldName/>
```

```xml
<rootUriNameFieldName/>

<extensionFieldName/>

<sizeFieldName/>

 <cluster_schema/>

<remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>240</xloc>

    <yloc>240</yloc>

    <draw>Y</draw>

    </GUI>

  </step>


 <step>

   <name>Carga da tabela</name>

   <type>TableOutput</type>

   <description/>

   <distribute>Y</distribute>

   <custom_distribution/>

   <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

   <connection>MonitoramentoPDE_PostgreSQL</connection>
```

```xml
<schema>&#x24;&#x7b;SCHEMA_FONTE_DADOS&#x7d;</schema>

<table>&#x24;&#x7b;NOME_TABELA&#x7d;</table>

<commit>1000</commit>

<truncate>N</truncate>

<ignore_errors>N</ignore_errors>

<use_batch>N</use_batch>

<specify_fields>Y</specify_fields>

<partitioning_enabled>N</partitioning_enabled>

<partitioning_field/>

<partitioning_daily>N</partitioning_daily>

<partitioning_monthly>Y</partitioning_monthly>

<tablename_in_field>N</tablename_in_field>

<tablename_field/>

<tablename_in_table>Y</tablename_in_table>

<return_keys>N</return_keys>

<return_field/>

<fields>

</fields>

  <cluster_schema/>
 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>240</xloc>

    <yloc>560</yloc>
```

```xml
      <draw>Y</draw>

    </GUI>

  </step>


  <step>

    <name>Formatar colunas de data e num&#xe9;ricas</name>

    <type>SelectValues</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

        </partitioning>

    <fields>         <select_unspecified>Y</select_unspecified>

    </fields>      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>240</xloc>

      <yloc>448</yloc>

      <draw>Y</draw>

    </GUI>

  </step>
```

```xml
<step>

  <name>Log erros convers&#xe3;o de data</name>

  <type>TableOutput</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

  <connection>MonitoramentoPDE_PostgreSQL</connection>

  <schema>&#x24;&#x7b;SCHEMA_SISTEMA&#x7d;</schema>

  <table>log_erro_carga</table>

  <commit>1000</commit>

  <truncate>N</truncate>

  <ignore_errors>N</ignore_errors>

  <use_batch>Y</use_batch>

  <specify_fields>Y</specify_fields>

  <partitioning_enabled>N</partitioning_enabled>

  <partitioning_field/>

  <partitioning_daily>N</partitioning_daily>
```

```xml
<partitioning_monthly>Y</partitioning_monthly>

<tablename_in_field>N</tablename_in_field>

<tablename_field/>

<tablename_in_table>Y</tablename_in_table>

<return_keys>N</return_keys>

<return_field/>

<fields>

    <field>

      <column_name>nome_arquivo_carga</column_name>

      <stream_name>nome_arquivo_carga</stream_name>

    </field>

    <field>

      <column_name>data_referencia</column_name>

      <stream_name>DataArquivo</stream_name>

    </field>

    <field>

      <column_name>numero_linha</column_name>

      <stream_name>NumeroLinha</stream_name>

    </field>

    <field>

      <column_name>erro_qtd</column_name>

      <stream_name>erro_qtd</stream_name>

    </field>
```

```xml
        <field>

          <column_name>erro_descricao</column_name>

          <stream_name>erro_descricao</stream_name>

        </field>

        <field>

          <column_name>erro_colunas</column_name>

          <stream_name>erro_colunas</stream_name>

        </field>

        <field>

          <column_name>erro_codigo</column_name>

          <stream_name>erro_codigo</stream_name>

        </field>

        <field>

          <column_name>data_carga</column_name>

          <stream_name>data_carga</stream_name>

        </field>

      </fields>

      <cluster_schema/>

  <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>416</xloc>

        <yloc>448</yloc>

        <draw>Y</draw>
```

```xml
      </GUI>

    </step>


  <step>

    <name>Log texto erros convers&#xe3;o de data</name>

    <type>TextFileOutput</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

    <separator>&#x3b;</separator>

    <enclosure>&#x22;</enclosure>

    <enclosure_forced>N</enclosure_forced>

    <enclosure_fix_disabled>N</enclosure_fix_disabled>

    <header>Y</header>

    <footer>N</footer>

    <format>DOS</format>

    <compression>None</compression>

    <encoding/>
```

```xml
<endedLine/>

<fileNameInField>N</fileNameInField>

<fileNameField/>

<create_parent_folder>Y</create_parent_folder>

<file>

  <name>C&#x3a;&#x5c;Pentaho&#x5c;Log&#x5c;ErroCarga</name>

  <is_command>N</is_command>

  <servlet_output>N</servlet_output>

  <do_not_open_new_file_init>N</do_not_open_new_file_init>

  <extention>txt</extention>

  <append>N</append>

  <split>N</split>

  <haspartno>N</haspartno>

  <add_date>N</add_date>

  <add_time>N</add_time>

  <SpecifyFormat>N</SpecifyFormat>

  <date_time_format/>

  <add_to_result_filenames>N</add_to_result_filenames>

  <pad>N</pad>

  <fast_dump>N</fast_dump>

  <splitevery>0</splitevery>

</file>

<fields>
```

```xml
<field>

  <name>nome_arquivo_carga</name>

  <type>String</type>

  <format/>

  <currency/>

  <decimal/>

  <group/>

  <nullif/>

  <trim_type>none</trim_type>

  <length>-1</length>

  <precision>-1</precision>

</field>

<field>

  <name>DataArquivo</name>

  <type>Date</type>

  <format/>

  <currency/>

  <decimal/>

  <group/>

  <nullif/>

  <trim_type>none</trim_type>

  <length>-1</length>

  <precision>-1</precision>
```

```xml
    </field>

    <field>

        <name>NumeroLinha</name>

        <type>Integer</type>

        <format>&#x23;&#x3b;-&#x23;</format>

        <currency/>

        <decimal>,</decimal>

        <group>.</group>

        <nullif/>

        <trim_type>none</trim_type>

        <length>-1</length>

        <precision>0</precision>

    </field>

    <field>

        <name>data_carga</name>

        <type>Date</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <trim_type>none</trim_type>

        <length>-1</length>
```

```xml
      <precision>-1</precision>

  </field>

  <field>

    <name>erro_qtd</name>

    <type>Integer</type>

    <format>&#x23;&#x3b;-&#x23;</format>

    <currency/>

    <decimal>,</decimal>

    <group>.</group>

    <nullif/>

    <trim_type>none</trim_type>

    <length>-1</length>

    <precision>0</precision>

  </field>

  <field>

    <name>erro_descricao</name>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <nullif/>

    <trim_type>none</trim_type>
```

```xml
      <length>-1</length>

      <precision>-1</precision>

    </field>

    <field>

      <name>erro_colunas</name>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif/>

      <trim_type>none</trim_type>

      <length>-1</length>

      <precision>-1</precision>

    </field>

    <field>

      <name>erro_codigo</name>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif/>
```

```xml
        <trim_type>none</trim_type>

        <length>-1</length>

        <precision>-1</precision>

      </field>

    </fields>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>416</xloc>

      <yloc>560</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Mapping &#x28;AgregarMetadadosArquivo&#x29;</name>

    <type>Mapping</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>
```

```xml
        </partitioning>

<specification_method>rep_name</specification_method>

<trans_object_id/>

<trans_name>AgregarMetadadosArquivo</trans_name>

<filename/>

<directory_path>&#x2f;</directory_path>

<mappings>

   <input>

<mapping>    <input_step/>

<output_step/>

<main_path>Y</main_path>

<rename_on_output>Y</rename_on_output>

<description/>

</mapping>       </input>

   <output>

<mapping>    <input_step/>

<output_step/>

<main_path>Y</main_path>

<rename_on_output>N</rename_on_output>

<description/>

</mapping>       </output>

     <parameters>    <inherit_all_vars>Y</inherit_all_vars>

</parameters>
```

```xml
    </mappings>

    <allow_multiple_input>N</allow_multiple_input>

    <allow_multiple_output>N</allow_multiple_output>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>240</xloc>

      <yloc>336</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step_error_handling>

      <error>

        <source_step>Formatar colunas de data e num&#xe9;ricas</source_step>

        <target_step>Log erros convers&#xe3;o de data</target_step>

        <is_enabled>Y</is_enabled>

        <nr_valuename>erro_qtd</nr_valuename>

        <descriptions_valuename>erro_descricao</descriptions_valuename>

        <fields_valuename>erro_colunas</fields_valuename>

        <codes_valuename>erro_codigo</codes_valuename>

        <max_errors>0</max_errors>

        <max_pct_errors/>
```

```
          <min_pct_rows/>

        </error>

    </step_error_handling>

    <slave-step-copy-partition-distribution>

  </slave-step-copy-partition-distribution>

    <slave_transformation>N</slave_transformation>



  </transformation>
```

InputDadosXlsx.ktr

```
<tr
ans
for
mat
ion
>

      <info>

        <name>InputDadosXlsx</name>

        <description/>

        <extended_description/>

        <trans_version/>

        <trans_type>Normal</trans_type>

        <trans_status>0</trans_status>

        <directory>&#x2f;</directory>

        <parameters>

        </parameters>

        <log>
```

```xml
<trans-log-table><connection/>

<schema/>

<table/>

<size_limit_lines/>

<interval/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STATUS</id><enabled>Y</enabled><name>STATUS</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name><subject/></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name><subject/></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name><subject/></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name><subject/></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name><subject/></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name><subject/></field><field><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>STARTDATE</id><enabled>Y</enabled><name>STARTDATE</name></field><field><id>ENDDATE</id><enabled>Y</enabled><name>ENDDATE</name></field><field><id>LOGDATE</id><enabled>Y</enabled><name>LOGDATE</name></field><field><id>DEPDATE</id><enabled>Y</enabled><name>DEPDATE</name></field><field><id>REPLAYDATE</id><enabled>Y</enabled><name>REPLAYDATE</name></field><field><id>LOG_FIELD</id><enabled>Y</enabled><name>LOG_FIELD</name></field><field><id>EXECUTING_SERVER</id><enabled>N</enabled><name>EXECUTING_SERVER</name></field><field><id>EXECUTING_USER</id><enabled>N</enabled><name>EXECUTING_USER</name></field><field><id>CLIENT</id><enabled>N</enabled><name>CLIENT</name></field></trans-log-table>

<perf-log-table><connection/>

<schema/>

<table/>

<interval/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><fiel
```

d><id>SEQ_NR</id><enabled>Y</enabled><name>SEQ_NR</name></field><field><
id>OUTPUT_BUFFER_ROWS</id><enabled>Y</enabled><name>OUTPUT_BUFFER_ROWS</name><
/field></perf-log-table>

<channel-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><fiel
d><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field
><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>
LOGGING_OBJECT_TYPE</id><enabled>Y</enabled><name>LOGGING_OBJECT_TYPE</name></
field><field><id>OBJECT_NAME</id><enabled>Y</enabled><name>OBJECT_NAME</name><
/field><field><id>OBJECT_COPY</id><enabled>Y</enabled><name>OBJECT_COPY</name>
</field><field><id>ROOT_CHANNEL_ID</id><enabl
ed>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

<step-log-table><connection/>

<schema/>

<table/>

<field><id>LOG_FIELD</id><enabled>N</enabled><name>LOG_FIELD</name></field></step-log-table>

<metrics-log-table>

<table/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>METRICS_DATE</id><enabled>Y</enabled><name>METRICS_DATE</name></field><field><id>METRICS_CODE</id><enabled>Y</enabled><name>METRICS_CODE</name></field><field><id>METRICS_DESCRIPTION</id><enabled>Y</enabled><name>METRICS_DESCRIPTION</name></field><field><id>METRICS_SUBJECT</id><enabled>Y</enabled><name>METRICS_SUBJECT</name></field><field><id>METRICS_TYPE</id><enabled>Y</enabled><name>METRICS_TYPE</name></field><field><id>METRICS_VALUE</id><enabled>Y</enabled><name>METRICS_VALUE</name></field></metrics-log-table>

    </log>

    <maxdate>

      <connection/>

      <table/>

      <field/>

      <offset>0.0</offset>

```xml
    <maxdiff>0.0</maxdiff>

  </maxdate>

  <size_rowset>10000</size_rowset>

  <sleep_time_empty>50</sleep_time_empty>

  <sleep_time_full>50</sleep_time_full>

  <unique_connections>N</unique_connections>

  <feedback_shown>Y</feedback_shown>

  <feedback_size>50000</feedback_size>

  <using_thread_priorities>Y</using_thread_priorities>

  <shared_objects_file/>

  <capture_step_performance>N</capture_step_performance>

  <step_performance_capturing_delay>1000</step_performance_capturing_delay>


<step_performance_capturing_size_limit>100</step_performance_capturing_size_limit>

  <dependencies>

  </dependencies>

  <partitionschemas>

  </partitionschemas>

  <slaveservers>

  </slaveservers>

  <clusterschemas>

  </clusterschemas>

<created_user>-</created_user>
```

```xml
<created_date>2016&#x2f;06&#x2f;04 18&#x3a;56&#x3a;49.006</created_date>

<modified_user>-</modified_user>

<modified_date>2016&#x2f;08&#x2f;26 13&#x3a;04&#x3a;39.530</modified_date>

<key_for_session_key>H4sIAAAAAAAAAMAAAAAAAAAAAA&#x3d;</key_for_session_key>

<is_key_private>N</is_key_private>

</info>

<notepads>

</notepads>

<connection>

<name>MonitoramentoPDE_PostgreSQL</name>

<server>&#x24;&#x7b;MONITORAMENTO_PDE_HOST&#x7d;</server>

<type>POSTGRESQL</type>

<access>Native</access>

<database>&#x24;&#x7b;MONITORAMENTO_PDE_BANCO&#x7d;</database>

<port>&#x24;&#x7b;MONITORAMENTO_PDE_PORTA&#x7d;</port>

<username>&#x24;&#x7b;MONITORAMENTO_PDE_USUARIO&#x7d;</username>

<password>&#x24;&#x7b;MONITORAMENTO_PDE_SENHA&#x7d;</password>

<servername/>

<data_tablespace/>

<index_tablespace/>

<attributes>

<attribute><code>FORCE_IDENTIFIERS_TO_LOWERCASE</code><attribute>N</attribute>
```

```
          </attribute>


<attribute><code>FORCE_IDENTIFIERS_TO_UPPERCASE</code><attribute>N</attribute>
</attribute>

        <attribute><code>IS_CLUSTERED</code><attribute>N</attribute></attribute>


<attribute><code>PORT_NUMBER</code><attribute>&#x24;&#x7b;MONITORAMENTO_PDE_PO
RTA&#x7d;</attribute></attribute>


<attribute><code>PRESERVE_RESERVED_WORD_CASE</code><attribute>Y</attribute></a
ttribute>


<attribute><code>QUOTE_ALL_FIELDS</code><attribute>N</attribute></attribute>


<attribute><code>SUPPORTS_BOOLEAN_DATA_TYPE</code><attribute>Y</attribute></at
tribute>


<attribute><code>SUPPORTS_TIMESTAMP_DATA_TYPE</code><attribute>Y</attribute></
attribute>

        <attribute><code>USE_POOLING</code><attribute>N</attribute></attribute>

    </attributes>

  </connection>

  <order>

  <hop> <from>Input Arquivo</from><to>Mapping
&#x28;AgregarMetadadosArquivo&#x29;</to><enabled>Y</enabled> </hop>

  <hop> <from>Formatar colunas especiais</from><to>Carga da
tabela</to><enabled>Y</enabled> </hop>

  <hop> <from>Formatar colunas especiais</from><to>Log erros convers&#xe3;o de
coluna</to><enabled>Y</enabled> </hop>

  <hop> <from>Formatar colunas especiais</from><to>Log texto erros
convers&#xe3;o de data</to><enabled>N</enabled> </hop>
```

```xml
<hop> <from>Mapping &#x28;AgregarMetadadosArquivo&#x29;</from><to>Formatar
colunas especiais</to><enabled>Y</enabled> </hop>

</order>

<step>

  <name>Carga da tabela</name>

  <type>TableOutput</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

  <connection>MonitoramentoPDE_PostgreSQL</connection>

  <schema>&#x24;&#x7b;SCHEMA_FONTE_DADOS&#x7d;</schema>

  <table>&#x24;&#x7b;NOME_TABELA&#x7d;</table>

  <commit>1000</commit>

  <truncate>N</truncate>

  <ignore_errors>N</ignore_errors>

  <use_batch>N</use_batch>

  <specify_fields>Y</specify_fields>

  <partitioning_enabled>N</partitioning_enabled>
```

```xml
<partitioning_field/>

<partitioning_daily>N</partitioning_daily>

<partitioning_monthly>Y</partitioning_monthly>

<tablename_in_field>N</tablename_in_field>

<tablename_field/>

<tablename_in_table>Y</tablename_in_table>

<return_keys>N</return_keys>

<return_field/>

<fields>

</fields>

 <cluster_schema/>

<remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>240</xloc>

    <yloc>528</yloc>

    <draw>Y</draw>

    </GUI>

</step>


<step>

<name>Formatar colunas especiais</name>

<type>SelectValues</type>

<description/>

<distribute>N</distribute>
```

```xml
        <custom_distribution/>

      <copies>1</copies>

            <partitioning>

              <method>none</method>

              <schema_name/>

            </partitioning>

      <fields>        <select_unspecified>Y</select_unspecified>

      </fields>      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>240</xloc>

        <yloc>416</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Input Arquivo</name>

      <type>ExcelInput</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>
```

```
    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<header>N</header>

<noempty>Y</noempty>

<stoponempty>N</stoponempty>

<filefield/>

<sheetfield/>

<sheetrownumfield>NumeroLinha</sheetrownumfield>

<rownumfield/>

<sheetfield/>

<filefield/>

<limit>0</limit>

<encoding/>

<add_to_result_filenames>N</add_to_result_filenames>

<accept_filenames>N</accept_filenames>

<accept_field/>

<accept_stepname/>

<file>

  <name/>

  <filemask/>

  <exclude_filemask/>
```

```xml
    <file_required>N</file_required>

    <include_subfolders>N</include_subfolders>

</file>

<fields>

</fields>

<sheets>

</sheets>

<strict_types>N</strict_types>

<error_ignored>N</error_ignored>

<error_line_skipped>N</error_line_skipped>

<bad_line_files_destination_directory/>

<bad_line_files_extension>warning</bad_line_files_extension>

<error_line_files_destination_directory/>

<error_line_files_extension>error</error_line_files_extension>

<line_number_files_destination_directory/>

<line_number_files_extension>line</line_number_files_extension>

<shortFileFieldName/>

<pathFieldName/>

<hiddenFieldName/>

<lastModificationTimeFieldName/>

<uriNameFieldName/>

<rootUriNameFieldName/>

<extensionFieldName/>
```

```
        <sizeFieldName/>

      <spreadsheet_type>SAX_POI</spreadsheet_type>

       <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>240</xloc>

        <yloc>192</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Log erros convers&#xe3;o de coluna</name>

      <type>TableOutput</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>

            </partitioning>

      <connection>MonitoramentoPDE_PostgreSQL</connection>

      <schema>&#x24;&#x7b;SCHEMA_SISTEMA&#x7d;</schema>
```

```xml
<table>log_erro_carga</table>

<commit>1000</commit>

<truncate>N</truncate>

<ignore_errors>N</ignore_errors>

<use_batch>Y</use_batch>

<specify_fields>Y</specify_fields>

<partitioning_enabled>N</partitioning_enabled>

<partitioning_field/>

<partitioning_daily>N</partitioning_daily>

<partitioning_monthly>Y</partitioning_monthly>

<tablename_in_field>N</tablename_in_field>

<tablename_field/>

<tablename_in_table>Y</tablename_in_table>

<return_keys>N</return_keys>

<return_field/>

<fields>

    <field>

      <column_name>nome_arquivo_carga</column_name>

      <stream_name>nome_arquivo_carga</stream_name>

    </field>

    <field>

      <column_name>data_referencia</column_name>

      <stream_name>DataArquivo</stream_name>
```

```xml
      </field>

      <field>

        <column_name>numero_linha</column_name>

        <stream_name>NumeroLinha</stream_name>

      </field>

      <field>

        <column_name>erro_qtd</column_name>

        <stream_name>erro_qtd</stream_name>

      </field>

      <field>

        <column_name>erro_descricao</column_name>

        <stream_name>erro_descricao</stream_name>

      </field>

      <field>

        <column_name>erro_colunas</column_name>

        <stream_name>erro_colunas</stream_name>

      </field>

      <field>

        <column_name>erro_codigo</column_name>

        <stream_name>erro_codigo</stream_name>

      </field>

      <field>

        <column_name>data_carga</column_name>
```

```xml
        <stream_name>data_carga</stream_name>

      </field>

    </fields>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>416</xloc>

      <yloc>416</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Log texto erros convers&#xe3;o de data</name>

    <type>TextFileOutput</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>
```

```
<separator>&#x3b;</separator>

<enclosure>&#x22;</enclosure>

<enclosure_forced>N</enclosure_forced>

<enclosure_fix_disabled>N</enclosure_fix_disabled>

<header>Y</header>

<footer>N</footer>

<format>DOS</format>

<compression>None</compression>

<encoding/>

<endedLine/>

<fileNameInField>N</fileNameInField>

<fileNameField/>

<create_parent_folder>Y</create_parent_folder>

<file>

  <name>C&#x3a;&#x5c;Pentaho&#x5c;Log&#x5c;ErroCarga</name>

  <is_command>N</is_command>

  <servlet_output>N</servlet_output>

  <do_not_open_new_file_init>N</do_not_open_new_file_init>

  <extention>txt</extention>

  <append>N</append>

  <split>N</split>

  <haspartno>N</haspartno>

  <add_date>N</add_date>
```

```xml
<add_time>N</add_time>

<SpecifyFormat>N</SpecifyFormat>

<date_time_format/>

<add_to_result_filenames>N</add_to_result_filenames>

<pad>N</pad>

<fast_dump>N</fast_dump>

<splitevery>0</splitevery>

</file>

<fields>

  <field>

    <name>nome_arquivo_carga</name>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <nullif/>

    <trim_type>none</trim_type>

    <length>-1</length>

    <precision>-1</precision>

  </field>

  <field>

    <name>DataArquivo</name>
```

```
            <type>Date</type>

            <format/>

            <currency/>

            <decimal/>

            <group/>

            <nullif/>

            <trim_type>none</trim_type>

            <length>-1</length>

            <precision>-1</precision>

        </field>

        <field>

            <name>NumeroLinha</name>

            <type>Integer</type>

            <format>&#x23;&#x3b;-&#x23;</format>

            <currency/>

            <decimal>,</decimal>

            <group>.</group>

            <nullif/>

            <trim_type>none</trim_type>

            <length>-1</length>

            <precision>0</precision>

        </field>

        <field>
```

```xml
      <name>data_carga</name>

      <type>Date</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif/>

      <trim_type>none</trim_type>

      <length>-1</length>

      <precision>-1</precision>

  </field>

  <field>

      <name>erro_qtd</name>

      <type>Integer</type>

      <format>&#x23;&#x3b;-&#x23;</format>

      <currency/>

      <decimal>,</decimal>

      <group>.</group>

      <nullif/>

      <trim_type>none</trim_type>

      <length>-1</length>

      <precision>0</precision>

  </field>
```

```xml
<field>
    <name>erro_descricao</name>
    <type>String</type>
    <format/>
    <currency/>
    <decimal/>
    <group/>
    <nullif/>
    <trim_type>none</trim_type>
    <length>-1</length>
    <precision>-1</precision>
</field>
<field>
    <name>erro_colunas</name>
    <type>String</type>
    <format/>
    <currency/>
    <decimal/>
    <group/>
    <nullif/>
    <trim_type>none</trim_type>
    <length>-1</length>
    <precision>-1</precision>
```

```xml
        </field>

        <field>

          <name>erro_codigo</name>

          <type>String</type>

          <format/>

          <currency/>

          <decimal/>

          <group/>

          <nullif/>

          <trim_type>none</trim_type>

          <length>-1</length>

          <precision>-1</precision>

        </field>

      </fields>

      <cluster_schema/>

    <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>416</xloc>

        <yloc>528</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>
```

```xml
<name>Mapping &#x28;AgregarMetadadosArquivo&#x29;</name>

<type>Mapping</type>

<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<specification_method>rep_name</specification_method>

<trans_object_id/>

<trans_name>AgregarMetadadosArquivo</trans_name>

<filename/>

<directory_path>&#x2f;</directory_path>

<mappings>

  <input>

<mapping>    <input_step/>

<output_step/>

<main_path>Y</main_path>

<rename_on_output>Y</rename_on_output>

<description/>

</mapping>      </input>
```

```xml
<output>

<mapping>     <input_step/>

<output_step/>

<main_path>Y</main_path>

<rename_on_output>N</rename_on_output>

<description/>

</mapping>      </output>

        <parameters>     <inherit_all_vars>Y</inherit_all_vars>

</parameters>

</mappings>

<allow_multiple_input>N</allow_multiple_input>

<allow_multiple_output>N</allow_multiple_output>

 <cluster_schema/>
<remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

<xloc>240</xloc>

<yloc>304</yloc>

<draw>Y</draw>

</GUI>

</step>


<step_error_handling>

<error>
```

```
                    <source_step>Formatar colunas especiais</source_step>

                    <target_step>Log erros convers&#xe3;o de coluna</target_step>

                    <is_enabled>Y</is_enabled>

                    <nr_valuename>erro_qtd</nr_valuename>

                    <descriptions_valuename>erro_descricao</descriptions_valuename>

                    <fields_valuename>erro_colunas</fields_valuename>

                    <codes_valuename>erro_codigo</codes_valuename>

                    <max_errors>0</max_errors>

                    <max_pct_errors/>

                    <min_pct_rows/>

                </error>

            </step_error_handling>

            <slave-step-copy-partition-distribution>

        </slave-step-copy-partition-distribution>

            <slave_transformation>N</slave_transformation>



        </transformation>
```

InputEstruturaTexto.ktr

```
<tr
ans
for
mat
ion
>

        <info>

            <name>InputEstruturaTexto</name>
```

```xml
        <description/>

        <extended_description/>

        <trans_version/>

        <trans_type>Normal</trans_type>

        <trans_status>0</trans_status>

        <directory>&#x2f;</directory>

        <parameters>

        </parameters>

        <log>

<trans-log-table><connection/>

<schema/>

<table/>

<size_limit_lines/>

<interval/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STATUS</id><enabled>Y</enabled><name>STATUS</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name><subject/></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name><subject/></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name><subject/></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name><subject/></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name><subject/></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name><subject/></field><field><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>STARTDATE</id><enabled>Y</enabled><name>STARTDATE</name></field><field><id>ENDDATE</id><enabled>Y</enabled><name>ENDDATE</name></field><field><id>LOGDATE</id><enabled>Y</enabled><name>LOGDATE</name></field><field><id>DEPDATE</id><enabled>Y</enabled
```

><name>DEPDATE</name></field><field><id>CLIENT</id><enabled>N</enabled><name>CLIENT</name></field></trans-log-table>

<perf-log-table><connection/>

<schema/>

<table/>

<interval/>

<timeout_days/>

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<table/>

<timeout_days/>

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field><field><id>OBJECT_NAME</id><enabled>Y</enabled><name>OBJECT_NAME</name></field><field><id>ROOT_CHANNEL_ID</id><enabled>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

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<table/>

<timeout_days/>

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<timeout_days/>

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        <table/>

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      <feedback_size>50000</feedback_size>

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```xml
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        </partitionschemas>

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        </slaveservers>

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        </clusterschemas>

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    <modified_user>-</modified_user>

    <modified_date>2016&#x2f;07&#x2f;29 18&#x3a;22&#x3a;21.635</modified_date>


<key_for_session_key>H4sIAAAAAAAAAMAAAAAAAAAAA&#x3d;</key_for_session_key>

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    </info>

    <notepads>

    </notepads>

    <order>

    <hop> <from>Input Texto</from><to>Copiar linhas ao
resultado</to><enabled>Y</enabled> </hop>

    </order>

    <step>

        <name>Input Texto</name>
```

```xml
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<custom_distribution/>

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    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

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<passing_through_fields>N</passing_through_fields>

<accept_field/>

<accept_stepname/>

<separator>&#x24;&#x7b;DELIMITADOR&#x7d;</separator>

<enclosure/>

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<escapechar/>

<header>N</header>

<nr_headerlines>1</nr_headerlines>

<footer>N</footer>

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<nr_wraps>1</nr_wraps>
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```xml
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<noempty>N</noempty>

<include>N</include>

<include_field/>

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<rownumByFile>N</rownumByFile>

<rownum_field/>

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<encoding/>

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<file>

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  <exclude_filemask/>

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  <include_subfolders>N</include_subfolders>

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  <compression>None</compression>

</file>

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</filters>
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```xml
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        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

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        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

    </field>

    <field>

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        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>
```

```xml
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            <ifnull/>

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            <length>-1</length>

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            <repeat>N</repeat>

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            <currency/>

            <decimal/>

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            <length>-1</length>

            <precision>-1</precision>

            <trim_type>none</trim_type>

            <repeat>N</repeat>

        </field>
```

```xml
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   <currency/>

   <decimal/>

   <group/>

   <nullif/>

   <ifnull/>

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   <type>String</type>

   <format/>

   <currency/>

   <decimal/>

   <group/>

   <nullif/>
```

```xml
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      <precision>-1</precision>

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  </field>

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      <format/>

      <currency/>

      <decimal/>

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      <length>-1</length>

      <precision>-1</precision>

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      <repeat>N</repeat>

  </field>

  <field>
```

```xml
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      <currency/>

      <decimal/>

      <group/>

      <nullif/>

      <ifnull/>

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      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif/>

      <ifnull/>
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```xml
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      <type>String</type>

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      <currency/>

      <decimal/>

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   <field>

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```xml
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        <currency/>

        <decimal/>

        <group/>

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        <ifnull/>

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        <currency/>

        <decimal/>

        <group/>

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        <ifnull/>

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```xml
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  <field>

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```xml
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        <decimal/>

        <group/>

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        <ifnull/>

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        <decimal/>

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```xml
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  <field>

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```xml
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      <decimal/>

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      <decimal/>

      <group/>

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      <ifnull/>

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      <length>-1</length>

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```xml
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  </field>

  <field>

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      <currency/>
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```xml
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      <group/>

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  </field>

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    <format/>

    <currency/>

    <decimal/>

    <group/>

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    <precision>-1</precision>

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```xml
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  </field>

  <field>

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    <decimal/>
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```xml
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      <precision>-1</precision>

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  <field>

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    <type>String</type>

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    <currency/>

    <decimal/>

    <group/>

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```xml
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          <decimal/>

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```xml
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    <decimal/>

    <group/>

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```xml
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      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif/>

      <ifnull/>

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      <length>-1</length>

      <precision>-1</precision>

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    </field>

    <field>
```

```xml
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        <decimal/>

        <group/>

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    <field>

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        <type>String</type>

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        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>
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```xml
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        <precision>-1</precision>

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    </field>

    <field>

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        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

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        <precision>-1</precision>

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        <repeat>N</repeat>

    </field>

    <field>

        <name>campo33</name>
```

```xml
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			<currency/>

			<decimal/>

			<group/>

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			<length>-1</length>

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			<repeat>N</repeat>
		</field>

		<field>

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			<format/>

			<currency/>

			<decimal/>

			<group/>

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			<ifnull/>

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```

```xml
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        <precision>-1</precision>

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    </field>

    <field>

        <name>campo35</name>

        <type>String</type>

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        <trim_type>none</trim_type>

        <repeat>N</repeat>

    </field>

    <field>

        <name>campo36</name>

        <type>String</type>
```

```xml
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        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

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        <length>-1</length>

        <precision>-1</precision>

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    </field>

    <field>

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        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

        <position>-1</position>

        <length>-1</length>
```

```xml
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        <repeat>N</repeat>

    </field>

    <field>

        <name>campo38</name>

        <type>String</type>

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        <decimal/>

        <group/>

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        <repeat>N</repeat>

    </field>

    <field>

        <name>campo39</name>

        <type>String</type>

        <format/>
```

```
        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

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        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

    </field>

    <field>

        <name>campo40</name>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

        <position>-1</position>

        <length>-1</length>

        <precision>-1</precision>
```

```xml
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      <repeat>N</repeat>

   </field>

   <field>

      <name>campo41</name>

      <type>String</type>

      <format/>

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      <repeat>N</repeat>

   </field>

   <field>

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      <format/>

      <currency/>
```

```
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        <group/>

        <nullif/>

        <ifnull/>

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        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

    </field>

    <field>

        <name>campo43</name>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

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        <length>-1</length>

        <precision>-1</precision>

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```

```xml
        <repeat>N</repeat>

    </field>

    <field>

        <name>campo44</name>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

        <position>-1</position>

        <length>-1</length>

        <precision>-1</precision>

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      <currency/>

      <decimal/>

      <group/>

      <nullif/>

      <ifnull/>
```

```xml
          <position>-1</position>

          <length>-1</length>

          <precision>-1</precision>

          <trim_type>none</trim_type>

          <repeat>N</repeat>

      </field>

      <field>

          <name>campo170</name>

          <type>String</type>

          <format/>

          <currency/>

          <decimal/>

          <group/>

          <nullif/>

          <ifnull/>

          <position>-1</position>

          <length>-1</length>

          <precision>-1</precision>

          <trim_type>none</trim_type>

          <repeat>N</repeat>

      </field>

      <field>

          <name>campo171</name>
```

```xml
        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

        <position>-1</position>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>
    </field>

    <field>

        <name>campo172</name>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

        <position>-1</position>
```

```xml
      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

  </field>

  <field>

      <name>campo173</name>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif/>

      <ifnull/>

      <position>-1</position>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

  </field>

  <field>

      <name>campo174</name>

      <type>String</type>
```

```xml
        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

        <position>-1</position>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>
    </field>

    <field>

        <name>campo175</name>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

        <position>-1</position>

        <length>-1</length>
```

```xml
        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

    </field>

    <field>

        <name>campo176</name>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

        <position>-1</position>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

    </field>

    <field>

        <name>campo177</name>

        <type>String</type>

        <format/>
```

```xml
            <currency/>

            <decimal/>

            <group/>

            <nullif/>

            <ifnull/>

            <position>-1</position>

            <length>-1</length>

            <precision>-1</precision>

            <trim_type>none</trim_type>

            <repeat>N</repeat>

        </field>

        <field>

            <name>campo178</name>

            <type>String</type>

            <format/>

            <currency/>

            <decimal/>

            <group/>

            <nullif/>

            <ifnull/>

            <position>-1</position>

            <length>-1</length>

            <precision>-1</precision>
```

```xml
      <trim_type>none</trim_type>

      <repeat>N</repeat>

  </field>

  <field>

      <name>campo179</name>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif/>

      <ifnull/>

      <position>-1</position>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

  </field>

  <field>

      <name>campo180</name>

      <type>String</type>

      <format/>

      <currency/>
```

```xml
        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

        <position>-1</position>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

    </field>

    <field>

        <name>campo181</name>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

        <position>-1</position>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>
```

```xml
          <repeat>N</repeat>

</field>

<field>

   <name>campo182</name>

   <type>String</type>

   <format/>

   <currency/>

   <decimal/>

   <group/>

   <nullif/>

   <ifnull/>

   <position>-1</position>

   <length>-1</length>

   <precision>-1</precision>

   <trim_type>none</trim_type>

   <repeat>N</repeat>

</field>

<field>

   <name>campo183</name>

   <type>String</type>

   <format/>

   <currency/>

   <decimal/>
```

```xml
      <group/>

      <nullif/>

      <ifnull/>

      <position>-1</position>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

  </field>

  <field>

    <name>campo184</name>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <nullif/>

    <ifnull/>

    <position>-1</position>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

    <repeat>N</repeat>
```

```xml
      </field>

      <field>

        <name>campo185</name>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

        <position>-1</position>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

      </field>

      <field>

        <name>campo186</name>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>
```

```xml
      <nullif/>

      <ifnull/>

      <position>-1</position>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

  </field>

  <field>

      <name>campo187</name>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif/>

      <ifnull/>

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      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

  </field>
```

```xml
<field>

    <name>campo188</name>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <nullif/>

    <ifnull/>

    <position>-1</position>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

    <repeat>N</repeat>

</field>

<field>

    <name>campo189</name>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <nullif/>
```

```xml
    <ifnull/>

    <position>-1</position>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

    <repeat>N</repeat>

</field>

<field>

    <name>campo190</name>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <nullif/>

    <ifnull/>

    <position>-1</position>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

    <repeat>N</repeat>

</field>

<field>
```

```xml
    <name>campo191</name>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <nullif/>

    <ifnull/>

    <position>-1</position>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

    <repeat>N</repeat>

</field>

<field>

    <name>campo192</name>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <nullif/>

    <ifnull/>
```

```xml
      <position>-1</position>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

  </field>

  <field>

      <name>campo193</name>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif/>

      <ifnull/>

      <position>-1</position>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

  </field>

  <field>

      <name>campo194</name>
```

```xml
            <type>String</type>

            <format/>

            <currency/>

            <decimal/>

            <group/>

            <nullif/>

            <ifnull/>

            <position>-1</position>

            <length>-1</length>

            <precision>-1</precision>

            <trim_type>none</trim_type>

            <repeat>N</repeat>

        </field>

        <field>

            <name>campo195</name>

            <type>String</type>

            <format/>

            <currency/>

            <decimal/>

            <group/>

            <nullif/>

            <ifnull/>

            <position>-1</position>
```

```xml
        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

    </field>

    <field>

        <name>campo196</name>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

        <position>-1</position>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

    </field>

    <field>

        <name>campo197</name>

        <type>String</type>
```

```xml
      <format/>

      <currency/>

      <decimal/>

      <group/>

      <nullif/>

      <ifnull/>

      <position>-1</position>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>
  </field>

  <field>

    <name>campo198</name>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <nullif/>

    <ifnull/>

    <position>-1</position>

    <length>-1</length>
```

```xml
        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

    </field>

    <field>

        <name>campo199</name>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

        <position>-1</position>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

    </field>

    <field>

        <name>campo200</name>

        <type>String</type>

        <format/>
```

```xml
        <currency/>

        <decimal/>

        <group/>

        <nullif/>

        <ifnull/>

        <position>-1</position>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

      </field>

    </fields>

    <limit>50</limit>

    <error_ignored>N</error_ignored>

    <skip_bad_files>N</skip_bad_files>

    <file_error_field/>

    <file_error_message_field/>

    <error_line_skipped>N</error_line_skipped>

    <error_count_field/>

    <error_fields_field/>

    <error_text_field/>

    <bad_line_files_destination_directory/>

    <bad_line_files_extension>warning</bad_line_files_extension>
```

```xml
<error_line_files_destination_directory/>

<error_line_files_extension>error</error_line_files_extension>

<line_number_files_destination_directory/>

<line_number_files_extension>line</line_number_files_extension>

<date_format_lenient>N</date_format_lenient>

<date_format_locale>pt_BR</date_format_locale>

<shortFileFieldName/>

<pathFieldName/>

<hiddenFieldName/>

<lastModificationTimeFieldName/>

<uriNameFieldName/>

<rootUriNameFieldName/>

<extensionFieldName/>

<sizeFieldName/>

 <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>80</xloc>

    <yloc>64</yloc>

    <draw>Y</draw>

    </GUI>

</step>
```

```xml
<step>

  <name>Copiar linhas ao resultado</name>

  <type>RowsToResult</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>208</xloc>

      <yloc>64</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step_error_handling>

  </step_error_handling>

   <slave-step-copy-partition-distribution>

</slave-step-copy-partition-distribution>
```

```
        <slave_transformation>N</slave_transformation>


    </transformation>
```

InputEstruturaXlsx.ktr

```
<tr
ans
for
mat
ion
>

        <info>

            <name>InputEstruturaXlsx</name>

            <description/>

            <extended_description/>

            <trans_version/>

            <trans_type>Normal</trans_type>

            <trans_status>0</trans_status>

            <directory>&#x2f;</directory>

            <parameters>

            </parameters>

            <log>

    <trans-log-table><connection/>

    <schema/>

    <table/>

    <size_limit_lines/>
```

<interval/>

<timeout_days/>

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<perf-log-table><connection/>

<schema/>

<table/>

<interval/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>SEQ_NR</id><enabled>Y</enabled><name>SEQ_NR</name></field><field><id>LOGDATE</id><enabled>Y</enabled><name>LOGDATE</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STEPNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>STEP_COPY</id><enabled>Y</enabled><name>STEP_COPY</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT<

/id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><
id>OUTPUT_BUFFER_ROWS</id><enabled>Y</enabled><name>OUTPUT_BUFFER_ROWS</name><
/field></perf-log-table>

<channel-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><fiel
d><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field
><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>
LOGGING_OBJECT_TYPE</id><enabled>Y</enabled><name>LOGGING_OBJECT_TYPE</name></
field><field><id>OBJECT_NAME</id><enabled>Y</enabled><name>OBJECT_NAME</name><
/field><field><id>OBJECT_COPY</id><enabled>Y</enabled><name>OBJECT_COPY</name>
</field><field><id>ROOT_CHANNEL_ID</id><enabl
ed>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

<step-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><fiel
d><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LINES_U

PDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LOG_FIELD</id><enabled>N</enabled><name>LOG_FIELD</name></field></step-log-table>

<metrics-log-table>

<table/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>METRICS_DATE</id><enabled>Y</enabled><name>METRICS_DATE</name></field><field><id>METRICS_CODE</id><enabled>Y</enabled><name>METRICS_CODE</name></field><field><id>METRICS_DESCRIPTION</id><enabled>Y</enabled><name>METRICS_DESCRIPTION</name></field><field><id>METRICS_SUBJECT</id><enabled>Y</enabled><name>METRICS_SUBJECT</name></field><field><id>METRICS_TYPE</id><enabled>Y</enabled><name>METRICS_TYPE</name></field><field><id>METRICS_VALUE</id><enabled>Y</enabled><name>METRICS_VALUE</name></field></metrics-log-table>

    </log>

    <maxdate>

      <connection/>

      <table/>

      <field/>

      <offset>0.0</offset>

      <maxdiff>0.0</maxdiff>

    </maxdate>

    <size_rowset>10000</size_rowset>

```
<sleep_time_full>50</sleep_time_full>

<unique_connections>N</unique_connections>

<feedback_shown>Y</feedback_shown>

<feedback_size>50000</feedback_size>

<using_thread_priorities>Y</using_thread_priorities>

<shared_objects_file/>

<capture_step_performance>N</capture_step_performance>

<step_performance_capturing_delay>1000</step_performance_capturing_delay>

<step_performance_capturing_size_limit>100</step_performance_capturing_size_limit>

<dependencies>

</dependencies>

<partitionschemas>

</partitionschemas>

<slaveservers>

</slaveservers>

<clusterschemas>

</clusterschemas>

<created_user>-</created_user>

<created_date>2016&#x2f;06&#x2f;05 11&#x3a;11&#x3a;01.277</created_date>

<modified_user>-</modified_user>

<modified_date>2016&#x2f;07&#x2f;29 18&#x3a;19&#x3a;00.965</modified_date>
```

```xml
<key_for_session_key>H4sIAAAAAAAAAMAAAAAAAAAAA&#x3d;</key_for_session_key>

    <is_key_private>N</is_key_private>

  </info>

  <notepads>

  </notepads>

  <order>

  <hop> <from>Input arquivo</from><to>Copiar linhas ao
resultado</to><enabled>Y</enabled> </hop>

  </order>

  <step>

    <name>Copiar linhas ao resultado</name>

    <type>RowsToResult</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>400</xloc>
```

```xml
        <yloc>144</yloc>

        <draw>Y</draw>

        </GUI>

    </step>


<step>

    <name>Input arquivo</name>

    <type>ExcelInput</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

            <method>none</method>

            <schema_name/>

            </partitioning>

    <header>N</header>

    <noempty>N</noempty>

    <stoponempty>N</stoponempty>

    <filefield/>

    <sheetfield/>

    <sheetrownumfield/>

    <rownumfield/>
```

```xml
<sheetfield/>

<filefield/>

<limit>50</limit>

<encoding/>

<add_to_result_filenames>N</add_to_result_filenames>

<accept_filenames>N</accept_filenames>

<accept_field/>

<accept_stepname/>

<file>

  <name>&#x24;&#x7b;filename&#x7d;</name>

  <filemask/>

  <exclude_filemask/>

  <file_required>N</file_required>

  <include_subfolders>N</include_subfolders>

</file>

<fields>

  <field>

    <name>campo1</name>

    <type>String</type>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

    <repeat>N</repeat>
```

```xml
      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo2</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo3</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>
```

```
      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

  </field>

  <field>

    <name>campo4</name>

    <type>String</type>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

    <repeat>N</repeat>

    <format/>

    <currency/>

    <decimal/>

    <group/>

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          <format/>

          <currency/>
```

```xml
        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo159</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo160</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>
```

```xml
        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo161</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo162</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>
```

```xml
          <format/>

          <currency/>

          <decimal/>

          <group/>

      </field>

      <field>

          <name>campo163</name>

          <type>String</type>

          <length>-1</length>

          <precision>-1</precision>

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          <repeat>N</repeat>

          <format/>

          <currency/>

          <decimal/>

          <group/>

      </field>

      <field>

          <name>campo164</name>

          <type>String</type>

          <length>-1</length>

          <precision>-1</precision>

          <trim_type>none</trim_type>
```

```xml
        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo165</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo166</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>
```

```xml
      <trim_type>none</trim_type>

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      <format/>

      <currency/>

      <decimal/>

      <group/>

  </field>

  <field>

    <name>campo167</name>

    <type>String</type>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

    <repeat>N</repeat>

    <format/>

    <currency/>

    <decimal/>

    <group/>

  </field>

  <field>

    <name>campo168</name>

    <type>String</type>

    <length>-1</length>
```

```xml
        <precision>-1</precision>

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        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo169</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo170</name>

        <type>String</type>
```

```xml
        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo171</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo172</name>
```

```xml
      <type>String</type>

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      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

  </field>

  <field>

    <name>campo173</name>

    <type>String</type>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

    <repeat>N</repeat>

    <format/>

    <currency/>

    <decimal/>

    <group/>

  </field>

  <field>
```

```xml
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      <precision>-1</precision>

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      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo175</name>

      <type>String</type>

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      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>
```

```xml
<field>
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  <length>-1</length>
  <precision>-1</precision>
  <trim_type>none</trim_type>
  <repeat>N</repeat>
  <format/>
  <currency/>
  <decimal/>
  <group/>
</field>
<field>
  <name>campo177</name>
  <type>String</type>
  <length>-1</length>
  <precision>-1</precision>
  <trim_type>none</trim_type>
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  <format/>
  <currency/>
  <decimal/>
  <group/>
```

```xml
        </field>

        <field>

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            <type>String</type>

            <length>-1</length>

            <precision>-1</precision>

            <trim_type>none</trim_type>

            <repeat>N</repeat>

            <format/>

            <currency/>

            <decimal/>

            <group/>

        </field>

        <field>

            <name>campo179</name>

            <type>String</type>

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            <precision>-1</precision>

            <trim_type>none</trim_type>

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            <format/>

            <currency/>

            <decimal/>
```

```xml
        <group/>

      </field>

      <field>

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        <precision>-1</precision>

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        <currency/>

        <decimal/>

        <group/>

      </field>

      <field>

        <name>campo181</name>

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        <precision>-1</precision>

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        <currency/>
```

```xml
        <decimal/>

        <group/>

    </field>

    <field>

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        <precision>-1</precision>

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        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

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        <precision>-1</precision>

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```

```xml
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      <group/>

    </field>

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      <precision>-1</precision>

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      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo185</name>

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      <precision>-1</precision>

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```

```xml
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      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

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      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

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      <precision>-1</precision>

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```xml
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        <currency/>

        <decimal/>

        <group/>

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    <field>

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        <precision>-1</precision>

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        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

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        <precision>-1</precision>
```

```xml
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        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

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        <precision>-1</precision>

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        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

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```

```xml
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      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

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      <precision>-1</precision>

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      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

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```

```xml
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          <format/>

          <currency/>

          <decimal/>

          <group/>

      </field>

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          <precision>-1</precision>

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          <currency/>

          <decimal/>

          <group/>

      </field>

      <field>

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```

```xml
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          <precision>-1</precision>

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          <format/>

          <currency/>

          <decimal/>

          <group/>

      </field>

      <field>

          <name>campo196</name>

          <type>String</type>

          <length>-1</length>

          <precision>-1</precision>

          <trim_type>none</trim_type>

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          <format/>

          <currency/>

          <decimal/>

          <group/>

      </field>

      <field>
```

```xml
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    <precision>-1</precision>

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    <format/>

    <currency/>

    <decimal/>

    <group/>

  </field>

  <field>

    <name>campo198</name>

    <type>String</type>

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    <precision>-1</precision>

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    <repeat>N</repeat>

    <format/>

    <currency/>

    <decimal/>

    <group/>

  </field>
```

```xml
<field>

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  <length>-1</length>

  <precision>-1</precision>

  <trim_type>none</trim_type>

  <repeat>N</repeat>

  <format/>

  <currency/>

  <decimal/>

  <group/>

</field>

<field>

  <name>campo200</name>

  <type>String</type>

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  <format/>

  <currency/>

  <decimal/>

  <group/>
```

```xml
    </field>

</fields>

<sheets>

</sheets>

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<error_line_skipped>N</error_line_skipped>

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<bad_line_files_extension>warning</bad_line_files_extension>

<error_line_files_destination_directory/>

<error_line_files_extension>error</error_line_files_extension>

<line_number_files_destination_directory/>

<line_number_files_extension>line</line_number_files_extension>

<shortFileFieldName/>

<pathFieldName/>

<hiddenFieldName/>

<lastModificationTimeFieldName/>

<uriNameFieldName/>

<rootUriNameFieldName/>

<extensionFieldName/>

<sizeFieldName/>

<spreadsheet_type>SAX_POI</spreadsheet_type>

 <cluster_schema/>
```

```xml
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        <yloc>144</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step_error_handling>

    </step_error_handling>

      <slave-step-copy-partition-distribution>

  </slave-step-copy-partition-distribution>

      <slave_transformation>N</slave_transformation>



      </transformation>
```

InputListarArquivos.ktr

```xml
<tr
ans
for
mat
ion
>

        <info>

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          <description/>

          <extended_description/>
```

```xml
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        <trans_type>Normal</trans_type>

        <trans_status>0</trans_status>

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        <parameters>

        </parameters>

        <log>

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<schema/>

<table/>

<size_limit_lines/>

<interval/>

<timeout_days/>

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```

nabled><name>CLIENT</name></field></trans-log-table>

<perf-log-table><connection/>

<schema/>

<table/>

<interval/>

<timeout_days/>

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<schema/>

<table/>

<timeout_days/>

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T_ID</name></field><field><id>ROOT_CHANNEL_ID</id><enabled>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

<step-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

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<schema/>

<table/>

<timeout_days/>

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```xml
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      <table/>

      <field/>

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    </maxdate>

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    <sleep_time_full>50</sleep_time_full>

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    <feedback_size>50000</feedback_size>

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    <shared_objects_file/>

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    </dependencies>
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        </partitionschemas>

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        </slaveservers>

        <clusterschemas>

        </clusterschemas>

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    <created_date>2016&#x2f;06&#x2f;01 22&#x3a;15&#x3a;51.881</created_date>

    <modified_user>-</modified_user>

    <modified_date>2016&#x2f;11&#x2f;21 16&#x3a;37&#x3a;24.179</modified_date>


<key_for_session_key>H4sIAAAAAAAAAMAAAAAAAAAAA&#x3d;</key_for_session_key>

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    </info>

    <notepads>

      <notepad>

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PARA SUPORTAR UNDERLINES NA DATA DO ARQUIVO</note>

        <xloc>16</xloc>

        <yloc>640</yloc>

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        <heigth>26</heigth>

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        <fontsize>9</fontsize>
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```xml
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        <fontitalic>N</fontitalic>

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        <fontcolorgreen>0</fontcolorgreen>

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        <drawshadow>Y</drawshadow>

      </notepad>

    </notepads>

    <order>

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Arquivo</to><enabled>Y</enabled> </hop>

    <hop> <from>Prepara Regex Busca Arquivo</from><to>Lista
Arquivos</to><enabled>Y</enabled> </hop>

    <hop> <from>Prepara Regex Busca Arquivo</from><to>Vari&#xe1;vel Regex Nome
Arquivo</to><enabled>Y</enabled> </hop>

    <hop> <from>Lista Arquivos</from><to>Retorna arquivos ao
resultado</to><enabled>Y</enabled> </hop>

    </order>

    <step>
```

```
<name>Input Formato Arquivo</name>

<type>GetVariable</type>

<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<fields>

  <field>

    <name>FormatoArquivo</name>

    <variable>&#x24;&#x7b;FORMATO_ARQUIVO&#x7d;</variable>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

  </field>
```

```xml
<field>

  <name>DiretorioFonte</name>

  <variable>&#x24;&#x7b;DIRETORIO_FONTE&#x7d;</variable>

  <type>String</type>

  <format/>

  <currency/>

  <decimal/>

  <group/>

  <length>-1</length>

  <precision>-1</precision>

  <trim_type>none</trim_type>

</field>

<field>

  <name>FormatoArquivoRegex</name>

  <variable>&#x24;&#x7b;FORMATO_ARQUIVO&#x7d;</variable>

  <type>String</type>

  <format/>

  <currency/>

  <decimal/>

  <group/>

  <length>-1</length>

  <precision>-1</precision>

  <trim_type>none</trim_type>
```

```xml
        </field>

      </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>96</xloc>

        <yloc>240</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Lista Arquivos</name>

      <type>GetFileNames</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>

            </partitioning>

      <filter>

        <filterfiletype>only_files</filterfiletype>
```

```xml
    </filter>

    <doNotFailIfNoFile>N</doNotFailIfNoFile>

    <rownum>N</rownum>

    <isaddresult>N</isaddresult>

    <filefield>Y</filefield>

    <rownum_field/>

    <filename_Field>DiretorioFonte</filename_Field>

    <wildcard_Field>FormatoArquivoRegex</wildcard_Field>

    <exclude_wildcard_Field/>

    <dynamic_include_subfolders>N</dynamic_include_subfolders>

    <limit>0</limit>

    <file>

      <name/>

      <filemask/>

      <exclude_filemask/>

      <file_required>N</file_required>

      <include_subfolders>N</include_subfolders>

    </file>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>400</xloc>

      <yloc>240</yloc>
```

```
            <draw>Y</draw>

        </GUI>

    </step>


<step>

  <name>Prepara Regex Busca Arquivo</name>

  <type>ReplaceString</type>

  <description/>

  <distribute>N</distribute>

  <custom_distribution/>

  <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

        </partitioning>

  <fields>

    <field>

      <in_stream_name>FormatoArquivoRegex</in_stream_name>

      <out_stream_name/>

      <use_regex>no</use_regex>

      <replace_string>AA</replace_string>

      <replace_by_string>&#x2a;</replace_by_string>

      <set_empty_string>N</set_empty_string>
```

```xml
        <replace_field_by_string/>

        <whole_word>no</whole_word>

        <case_sensitive>yes</case_sensitive>

    </field>

    <field>

        <in_stream_name>FormatoArquivoRegex</in_stream_name>

        <out_stream_name/>

        <use_regex>no</use_regex>

        <replace_string>&#x2a;&#x2a;</replace_string>

        <replace_by_string>&#x2a;</replace_by_string>

        <set_empty_string>N</set_empty_string>

        <replace_field_by_string/>

        <whole_word>no</whole_word>

        <case_sensitive>no</case_sensitive>

    </field>

    <field>

        <in_stream_name>FormatoArquivoRegex</in_stream_name>

        <out_stream_name/>

        <use_regex>no</use_regex>

        <replace_string>MM</replace_string>

        <replace_by_string/>

        <set_empty_string>N</set_empty_string>

        <replace_field_by_string/>
```

```xml
        <whole_word>no</whole_word>

        <case_sensitive>yes</case_sensitive>

    </field>

    <field>

        <in_stream_name>FormatoArquivoRegex</in_stream_name>

        <out_stream_name/>

        <use_regex>no</use_regex>

        <replace_string>DD</replace_string>

        <replace_by_string/>

        <set_empty_string>N</set_empty_string>

        <replace_field_by_string/>

        <whole_word>no</whole_word>

        <case_sensitive>yes</case_sensitive>

    </field>

    <field>

        <in_stream_name>FormatoArquivoRegex</in_stream_name>

        <out_stream_name/>

        <use_regex>no</use_regex>

        <replace_string>.</replace_string>

        <replace_by_string>&#x5c;&#x5c;.</replace_by_string>

        <set_empty_string>N</set_empty_string>

        <replace_field_by_string/>

        <whole_word>no</whole_word>
```

```xml
      <case_sensitive>no</case_sensitive>

   </field>

   <field>

      <in_stream_name>FormatoArquivoRegex</in_stream_name>

      <out_stream_name/>

      <use_regex>no</use_regex>

      <replace_string>&#x2a;</replace_string>

      <replace_by_string>&#x28;&#x5b;0-
9&#x5d;&#x2a;&#x29;</replace_by_string>

      <set_empty_string>N</set_empty_string>

      <replace_field_by_string/>

      <whole_word>no</whole_word>

      <case_sensitive>no</case_sensitive>

   </field>

   <field>

      <in_stream_name>FormatoArquivoRegex</in_stream_name>

      <out_stream_name>FormatoDataArquivoRegex</out_stream_name>

      <use_regex>no</use_regex>

      <replace_string>&#x28;&#x5b;0-9&#x5d;&#x2a;&#x29;</replace_string>

<replace_by_string>&#x28;&#x5b;AMD&#x5d;&#x2a;&#x29;</replace_by_string>

      <set_empty_string>N</set_empty_string>

      <replace_field_by_string/>

      <whole_word>no</whole_word>
```

```xml
          <case_sensitive>no</case_sensitive>

        </field>

      </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>256</xloc>

        <yloc>240</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Retorna arquivos ao resultado</name>

      <type>RowsToResult</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>

            </partitioning>

      <cluster_schema/>
```

```xml
<remotesteps>    <input>    </input>    <output>    </output> </remotesteps>
<GUI>

    <xloc>544</xloc>

    <yloc>240</yloc>

    <draw>Y</draw>

    </GUI>

   </step>


  <step>

   <name>Vari&#xe1;vel Regex Nome Arquivo</name>

   <type>SetVariable</type>

   <description/>

   <distribute>Y</distribute>

   <custom_distribution/>

   <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

   <fields>

    <field>

      <field_name>FormatoArquivoRegex</field_name>

      <variable_name>FORMATO_ARQUIVO_REGEX</variable_name>
```

```xml
            <variable_type>JVM</variable_type>

            <default_value/>

            </field>

        <field>

            <field_name>FormatoDataArquivoRegex</field_name>

            <variable_name>FORMATO_DATA_ARQUIVO_REGEX</variable_name>

            <variable_type>JVM</variable_type>

            <default_value/>

            </field>

        </fields>

    <use_formatting>Y</use_formatting>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>256</xloc>

        <yloc>352</yloc>

        <draw>Y</draw>

        </GUI>

    </step>


  <step_error_handling>

  </step_error_handling>

   <slave-step-copy-partition-distribution>

</slave-step-copy-partition-distribution>
```

```
        <slave_transformation>N</slave_transformation>



    </transformation>
```

ListarArquivos.kjb

```
<
j
o
b
>

    <name>ListarArquivos</name>

      <description/>

      <extended_description/>

      <job_version/>

      <job_status>0</job_status>

  <directory>&#x2f;</directory>

  <created_user>-</created_user>

  <created_date>2016&#x2f;06&#x2f;04 18&#x3a;47&#x3a;39.930</created_date>

  <modified_user>-</modified_user>

  <modified_date>2016&#x2f;06&#x2f;04 18&#x3a;50&#x3a;33.489</modified_date>

      <parameters>

      </parameters>

      <slaveservers>

      </slaveservers>

  <job-log-table><connection/>

  <schema/>
```

<table/>

<field><id>ID_JOB</id><enabled>Y</enabled><name>ID_JOB</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>JOBNAME</id><enabled>Y</enabled><name>JOBNAME</name></field><field><id>STATUS</id><enabled>Y</enabled><name>STATUS</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>STARTDATE</id><enabled>Y</enabled><name>STARTDATE</name></field><field><id>ENDDATE</id><enabled>Y</enabled><name>ENDDATE</name></field><field><id>LOGDATE</id><enabled>Y</enabled><name>LOGDATE</name></field><field><id>DEPDATE</id><enabled>Y</enabled><name>DEPDATE</name></field><field><id>REPLAYDATE</id><enabled>Y</enabled><name>REPLAYDATE</name></field><field><id>LOG_FIELD</id><enabled>Y</enabled><name>LOG_FIELD</name></field><field><id>EXECUTING_SERVER</id><enabled>N</enabled><name>EXECUTING_SERVER</name></field><field><id>EXECUTING_USER</id><enabled>N</enabled><name>EXECUTING_USER</name></field><field><id>START_JOB_ENTRY</id><enabled>N</enabled><name>START_JOB_ENTRY</name></field><field><id>CLIENT</id><enabled>N</enabled><name>CLIENT</name></field></job-log-table>

<jobentry-log-table>

<table/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>JOBNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>JOBENTRYNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enab

led>Y</enabled><name>LINES_UPDATED</name></field><field><id>COPY_NR</id><enabled>N</enabled><name>COPY_NR</name></field></jobentry-log-table>

<channel-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>LOGGING_OBJECT_TYPE</id><enabled>Y</enabled><name>LOGGING_OBJECT_TYPE</name></field><field><id>OBJECT_NAME</id><enabled>Y</enabled><name>OBJECT_NAME</name></field><field><id>OBJECT_COPY</id><enabled>Y</enabled><name>OBJECT_COPY</name></field><field><id>REPOSITORY_DIRECTORY</id><enabled>Y</enabled><name>REPOSITORY_DIRECTORY</name></field><field><id>FILENAME</id><enabled>Y</enabled><name>FILENAME</name></field><field><id>OBJECT_ID</id><enabled>Y</enabled><name>OBJECT_ID</name></field><field><id>OBJECT_REVISION</id><enabled>Y</enabled><name>OBJECT_REVISION</name></field><field><id>PARENT_CHANNEL_ID</id><enabled>Y</enabled><name>PARENT_CHANNEL_ID</name></field><field><id>ROOT_CHANNEL_ID</id><enabled>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

    <pass_batchid>N</pass_batchid>

    <shared_objects_file/>

  <entries>

    <entry>

      <name>START</name>

      <description/>

      <type>SPECIAL</type>

```
<start>Y</start>

<dummy>N</dummy>

<repeat>N</repeat>

<schedulerType>0</schedulerType>

<intervalSeconds>0</intervalSeconds>

<intervalMinutes>60</intervalMinutes>

<hour>12</hour>

<minutes>0</minutes>

<weekDay>1</weekDay>

<DayOfMonth>1</DayOfMonth>

<parallel>N</parallel>

<draw>Y</draw>

<nr>0</nr>

<xloc>256</xloc>

<yloc>272</yloc>

</entry>

<entry>

<name>InputListarArquivos</name>

<description/>

<type>TRANS</type>

<specification_method>rep_name</specification_method>

<trans_object_id/>

<filename/>
```

```xml
<transname>InputListarArquivos</transname>

<directory>&#x2f;</directory>

<arg_from_previous>N</arg_from_previous>

<params_from_previous>N</params_from_previous>

<exec_per_row>N</exec_per_row>

<clear_rows>N</clear_rows>

<clear_files>N</clear_files>

<set_logfile>N</set_logfile>

<logfile/>

<logext/>

<add_date>N</add_date>

<add_time>N</add_time>

<loglevel>Basic</loglevel>

<cluster>N</cluster>

<slave_server_name/>

<set_append_logfile>N</set_append_logfile>

<wait_until_finished>Y</wait_until_finished>

<follow_abort_remote>N</follow_abort_remote>

<create_parent_folder>N</create_parent_folder>

<logging_remote_work>N</logging_remote_work>

<parameters>        <pass_all_parameters>Y</pass_all_parameters>

</parameters>      <parallel>N</parallel>

<draw>Y</draw>
```

```xml
      <nr>0</nr>

      <xloc>256</xloc>

      <yloc>380</yloc>

      </entry>

    <entry>

      <name>FiltrarArquivosPelaData</name>

      <description/>

      <type>TRANS</type>

      <specification_method>rep_name</specification_method>

      <trans_object_id/>

      <filename/>

      <transname>FiltrarArquivosPelaData</transname>

      <directory>&#x2f;</directory>

      <arg_from_previous>N</arg_from_previous>

      <params_from_previous>N</params_from_previous>

      <exec_per_row>N</exec_per_row>

      <clear_rows>N</clear_rows>

      <clear_files>N</clear_files>

      <set_logfile>N</set_logfile>

      <logfile/>

      <logext/>

      <add_date>N</add_date>

      <add_time>N</add_time>
```

```xml
      <loglevel>Basic</loglevel>

      <cluster>N</cluster>

      <slave_server_name/>

      <set_append_logfile>N</set_append_logfile>

      <wait_until_finished>Y</wait_until_finished>

      <follow_abort_remote>N</follow_abort_remote>

      <create_parent_folder>N</create_parent_folder>

      <logging_remote_work>N</logging_remote_work>

      <parameters>          <pass_all_parameters>Y</pass_all_parameters>

      </parameters>        <parallel>N</parallel>

      <draw>Y</draw>

      <nr>0</nr>

      <xloc>352</xloc>

      <yloc>572</yloc>

      </entry>

    <entry>

      <name>Verifica se deve utilizar filtro de data fim</name>

      <description/>

      <type>SIMPLE_EVAL</type>

      <valuetype>variable</valuetype>

      <fieldname/>

      <variablename>DATA_FIM</variablename>

      <fieldtype>datetime</fieldtype>
```

```
      <mask>yyyyMMdd</mask>

      <comparevalue>21990101</comparevalue>

      <minvalue/>

      <maxvalue/>

      <successcondition>equal</successcondition>

      <successnumbercondition>smaller</successnumbercondition>

      <successbooleancondition>false</successbooleancondition>

      <successwhenvarset>N</successwhenvarset>

      <parallel>N</parallel>

      <draw>Y</draw>

      <nr>0</nr>

      <xloc>256</xloc>

      <yloc>476</yloc>

    </entry>

  <entry>

    <name>Verifica se deve utilizar filtro de data in&#xed;cio</name>

    <description/>

    <type>SIMPLE_EVAL</type>

    <valuetype>variable</valuetype>

    <fieldname/>

    <variablename>DATA_INICIO</variablename>

    <fieldtype>datetime</fieldtype>

    <mask>yyyyMMdd</mask>
```

```
        <comparevalue>19000101</comparevalue>

        <minvalue/>

        <maxvalue/>

        <successcondition>equal</successcondition>

        <successnumbercondition>greater</successnumbercondition>

        <successbooleancondition>false</successbooleancondition>

        <successwhenvarset>N</successwhenvarset>

        <parallel>N</parallel>

        <draw>Y</draw>

        <nr>0</nr>

        <xloc>160</xloc>

        <yloc>572</yloc>

        </entry>

    <entry>

      <name>Success</name>

      <description/>

      <type>SUCCESS</type>

      <parallel>N</parallel>

      <draw>Y</draw>

      <nr>0</nr>

      <xloc>256</xloc>

      <yloc>688</yloc>

      </entry>
```

```xml
    </entries>

    <hops>

      <hop>

        <from>START</from>

        <to>InputListarArquivos</to>

        <from_nr>0</from_nr>

        <to_nr>0</to_nr>

        <enabled>Y</enabled>

        <evaluation>Y</evaluation>

        <unconditional>Y</unconditional>

      </hop>

      <hop>

        <from>InputListarArquivos</from>

        <to>Verifica se deve utilizar filtro de data fim</to>

        <from_nr>0</from_nr>

        <to_nr>0</to_nr>

        <enabled>Y</enabled>

        <evaluation>Y</evaluation>

        <unconditional>N</unconditional>

      </hop>

      <hop>

        <from>Verifica se deve utilizar filtro de data fim</from>

        <to>Verifica se deve utilizar filtro de data in&#xed;cio</to>
```

```
      <from_nr>0</from_nr>

      <to_nr>0</to_nr>

      <enabled>Y</enabled>

      <evaluation>N</evaluation>

      <unconditional>N</unconditional>

  </hop>

  <hop>

      <from>Verifica se deve utilizar filtro de data in&#xed;cio</from>

      <to>FiltrarArquivosPelaData</to>

      <from_nr>0</from_nr>

      <to_nr>0</to_nr>

      <enabled>Y</enabled>

      <evaluation>Y</evaluation>

      <unconditional>N</unconditional>

  </hop>

  <hop>

      <from>Verifica se deve utilizar filtro de data fim</from>

      <to>FiltrarArquivosPelaData</to>

      <from_nr>0</from_nr>

      <to_nr>0</to_nr>

      <enabled>Y</enabled>

      <evaluation>Y</evaluation>

      <unconditional>N</unconditional>
```

```
      </hop>

      <hop>

        <from>Verifica se deve utilizar filtro de data in&#xed;cio</from>

        <to>Success</to>

        <from_nr>0</from_nr>

        <to_nr>0</to_nr>

        <enabled>Y</enabled>

        <evaluation>N</evaluation>

        <unconditional>N</unconditional>

      </hop>

      <hop>

        <from>FiltrarArquivosPelaData</from>

        <to>Success</to>

        <from_nr>0</from_nr>

        <to_nr>0</to_nr>

        <enabled>Y</enabled>

        <evaluation>Y</evaluation>

        <unconditional>N</unconditional>

      </hop>

    </hops>

    <notepads>

    </notepads>
```

```
        </job>
```

MonitoramentoPDE_PostgreSQL.kdb

```
<connect
ion>

            <name>MonitoramentoPDE_PostgreSQL</name>

            <server>&#x24;&#x7b;MONITORAMENTO_PDE_HOST&#x7d;</server>

            <type>POSTGRESQL</type>

            <access>Native</access>

            <database>&#x24;&#x7b;MONITORAMENTO_PDE_BANCO&#x7d;</database>

            <port>&#x24;&#x7b;MONITORAMENTO_PDE_PORTA&#x7d;</port>

            <username>&#x24;&#x7b;MONITORAMENTO_PDE_USUARIO&#x7d;</username>

            <password>&#x24;&#x7b;MONITORAMENTO_PDE_SENHA&#x7d;</password>

            <servername/>

            <data_tablespace/>

            <index_tablespace/>

            <attributes>

        <attribute><code>FORCE_IDENTIFIERS_TO_LOWERCASE</code><attribute>N</attrib
ute></attribute>


        <attribute><code>FORCE_IDENTIFIERS_TO_UPPERCASE</code><attribute>N</attrib
ute></attribute>


        <attribute><code>IS_CLUSTERED</code><attribute>N</attribute></attribute>


        <attribute><code>PORT_NUMBER</code><attribute>&#x24;&#x7b;MONITORAMENTO_PD
E_PORTA&#x7d;</attribute></attribute>
```

```
<attribute><code>PRESERVE_RESERVED_WORD_CASE</code><attribute>Y</attribute
></attribute>


<attribute><code>QUOTE_ALL_FIELDS</code><attribute>N</attribute></attribut
e>


<attribute><code>SUPPORTS_BOOLEAN_DATA_TYPE</code><attribute>Y</attribute>
</attribute>


<attribute><code>SUPPORTS_TIMESTAMP_DATA_TYPE</code><attribute>Y</attribut
e></attribute>


<attribute><code>USE_POOLING</code><attribute>N</attribute></attribute>

    </attributes>

  </connection>
```

ObterEstruturaArquuvivo.ktr

```
<tr
ans
for
mat
ion
>

        <info>

          <name>ObterEstruturaArquivo</name>

          <description/>

          <extended_description/>

          <trans_version/>

          <trans_type>Normal</trans_type>

          <trans_status>0</trans_status>
```

```xml
    <directory>&#x2f;</directory>

    <parameters>

    </parameters>

    <log>

<trans-log-table><connection/>

<schema/>

<table/>

<size_limit_lines/>

<interval/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STATUS</id><enabled>Y</enabled><name>STATUS</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name><subject/></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name><subject/></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name><subject/></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name><subject/></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name><subject/></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name><subject/></field><field><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>STARTDATE</id><enabled>Y</enabled><name>STARTDATE</name></field><field><id>ENDDATE</id><enabled>Y</enabled><name>ENDDATE</name></field><field><id>LOGDATE</id><enabled>Y</enabled><name>LOGDATE</name></field><field><id>DEPDATE</id><enabled>Y</enabled><name>DEPDATE</name></field><field><id>REPLAYDATE</id><enabled>Y</enabled><name>REPLAYDATE</name></field><field><id>LOG_FIELD</id><enabled>Y</enabled><name>LOG_FIELD</name></field><field><id>EXECUTING_SERVER</id><enabled>N</enabled><name>EXECUTING_SERVER</name></field><field><id>EXECUTING_USER</id><enabled>N</enabled><name>EXECUTING_USER</name></field><field><id>CLIENT</id><enabled>N</enabled><name>CLIENT</name></field></trans-log-table>

<perf-log-table><connection/>

<schema/>
```

```xml
<table/>

<interval/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>SEQ_NR</id><enabled>Y</enabled><name>SEQ_NR</name></field><field><id>LOGDATE</id><enabled>Y</enabled><name>LOGDATE</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STEPNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>STEP_COPY</id><enabled>Y</enabled><name>STEP_COPY</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>INPUT_BUFFER_ROWS</id><enabled>Y</enabled><name>INPUT_BUFFER_ROWS</name></field><field><id>OUTPUT_BUFFER_ROWS</id><enabled>Y</enabled><name>OUTPUT_BUFFER_ROWS</name></field></perf-log-table>

<channel-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>LOGGING_OBJECT_TYPE</id><enabled>Y</enabled><name>LOGGING_OBJECT_TYPE</name></field><field><id>OBJECT_NAME</id><enabled>Y</enabled><name>OBJECT_NAME</name></field><field><id>OBJECT_COPY</id><enabled>Y</enabled><name>OBJECT_COPY</name></field><field><id>REPOSITORY_DIRECTORY</id><enabled>Y</enabled><name>REPOSITORY_DIRECTORY</name></field><field><id>FILENAME</id><enabled>Y</enabled><name>FILENAME</name></field><field><id>OBJECT_ID</id><enabled>Y</enabled><name>OBJECT_ID</name></field><field><id>OBJECT_REVISION</id><enabled>Y</enabled><name>OBJECT_REVISION</name></field><field><id>PARENT_CHANNEL_ID</id><enabled>Y</enabled><name>PARENT_CHANNEL_ID</name></field><field><id>ROOT_CHANNEL_ID</id><enabled>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>
```

<step-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STEPNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>STEP_COPY</id><enabled>Y</enabled><name>STEP_COPY</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>LOG_FIELD</id><enabled>N</enabled><name>LOG_FIELD</name></field></step-log-table>

<metrics-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>METRICS_DATE</id><enabled>Y</enabled><name>METRICS_DATE</name></field><field><id>METRICS_CODE</id><enabled>Y</enabled><name>METRICS_CODE</name></field><field><id>METRICS_DESCRIPTION</id><enabled>Y</enabled><name>METRICS_DESCRIPTION</name></field><field><id>METRICS_SUBJECT</id><enabled>Y</enabled><name>METRICS_SUBJECT</name></field><field><id>METRICS_TYPE</id><enabled>Y</enabled><name>METRICS_TYPE</name></field><field><id>METRICS_VALUE</id><enabled>Y</enabled><name>METRICS_VALUE</name></field></metrics-log-table>

    </log>

    <maxdate>

```xml
      <connection/>

      <table/>

      <field/>

      <offset>0.0</offset>

      <maxdiff>0.0</maxdiff>

    </maxdate>

    <size_rowset>10000</size_rowset>

    <sleep_time_empty>50</sleep_time_empty>

    <sleep_time_full>50</sleep_time_full>

    <unique_connections>N</unique_connections>

    <feedback_shown>Y</feedback_shown>

    <feedback_size>50000</feedback_size>

    <using_thread_priorities>Y</using_thread_priorities>

    <shared_objects_file/>

    <capture_step_performance>N</capture_step_performance>

    <step_performance_capturing_delay>1000</step_performance_capturing_delay>

<step_performance_capturing_size_limit>100</step_performance_capturing_size_limit>

    <dependencies>

    </dependencies>

    <partitionschemas>

    </partitionschemas>

    <slaveservers>
```

        </slaveservers>

      <clusterschemas>

      </clusterschemas>

    <created_user>-</created_user>

    <created_date>2016/06/02 14:52:12.417</created_date>

    <modified_user>-</modified_user>

    <modified_date>2016/11/21 17:10:58.787</modified_date>

<key_for_session_key>H4sIAAAAAAAAAMAAAAAAAAAAA=</key_for_session_key>

      <is_key_private>N</is_key_private>

    </info>

    <notepads>

      <notepad>

        <note>Regras de negócio

1. O arquivo deve ter
até 200 colunas.
2. A linha de cabeçalhos deve estar entre
as 50 primeiras linhas.</note>

        <xloc>16</xloc>

        <yloc>16</yloc>

        <width>341</width>

        <heigth>73</heigth>

        <fontname>Segoe UI</fontname>

        <fontsize>9</fontsize>

        <fontbold>N</fontbold>

        <fontitalic>N</fontitalic>

```xml
        <fontcolorred>0</fontcolorred>

        <fontcolorgreen>0</fontcolorgreen>

        <fontcolorblue>0</fontcolorblue>

        <backgroundcolorred>247</backgroundcolorred>

        <backgroundcolorgreen>253</backgroundcolorgreen>

        <backgroundcolorblue>213</backgroundcolorblue>

        <bordercolorred>100</bordercolorred>

        <bordercolorgreen>100</bordercolorgreen>

        <bordercolorblue>100</bordercolorblue>

        <drawshadow>Y</drawshadow>

    </notepad>

</notepads>

<connection>

    <name>MonitoramentoPDE_PostgreSQL</name>

    <server>&#x24;&#x7b;MONITORAMENTO_PDE_HOST&#x7d;</server>

    <type>POSTGRESQL</type>

    <access>Native</access>

    <database>&#x24;&#x7b;MONITORAMENTO_PDE_BANCO&#x7d;</database>

    <port>&#x24;&#x7b;MONITORAMENTO_PDE_PORTA&#x7d;</port>

    <username>&#x24;&#x7b;MONITORAMENTO_PDE_USUARIO&#x7d;</username>

    <password>&#x24;&#x7b;MONITORAMENTO_PDE_SENHA&#x7d;</password>

    <servername/>

    <data_tablespace/>
```

```xml
<index_tablespace/>

<attributes>

<attribute><code>FORCE_IDENTIFIERS_TO_LOWERCASE</code><attribute>N</attribute>
</attribute>

<attribute><code>FORCE_IDENTIFIERS_TO_UPPERCASE</code><attribute>N</attribute>
</attribute>

<attribute><code>IS_CLUSTERED</code><attribute>N</attribute></attribute>

<attribute><code>PORT_NUMBER</code><attribute>&#x24;&#x7b;MONITORAMENTO_PDE_PO
RTA&#x7d;</attribute></attribute>

<attribute><code>PRESERVE_RESERVED_WORD_CASE</code><attribute>Y</attribute></a
ttribute>

<attribute><code>QUOTE_ALL_FIELDS</code><attribute>N</attribute></attribute>

<attribute><code>SUPPORTS_BOOLEAN_DATA_TYPE</code><attribute>Y</attribute></at
tribute>

<attribute><code>SUPPORTS_TIMESTAMP_DATA_TYPE</code><attribute>Y</attribute></
attribute>

<attribute><code>USE_POOLING</code><attribute>N</attribute></attribute>

</attributes>

</connection>

<order>

<hop> <from>Retirar acentos</from><to>Retirar
pontua&#xe7;&#xe3;o</to><enabled>Y</enabled> </hop>

<hop> <from>Numerar as linhas</from><to>Filtrar linha do
cabe&#xe7;alho</to><enabled>Y</enabled> </hop>
```

```xml
  <hop> <from>Filtrar linha do cabe&#xe7;alho</from><to>Unpivot nome das
colunas</to><enabled>Y</enabled> </hop>

  <hop> <from>Filtrar linha do cabe&#xe7;alho</from><to>Descarta
conteudo</to><enabled>Y</enabled> </hop>

  <hop> <from>Obter linha cabecalho</from><to>Juntar
vari&#xe1;vel</to><enabled>Y</enabled> </hop>

  <hop> <from>Teste input arquivo</from><to>Juntar
vari&#xe1;vel</to><enabled>N</enabled> </hop>

  <hop> <from>Juntar vari&#xe1;vel</from><to>Numerar as
linhas</to><enabled>Y</enabled> </hop>

  <hop> <from>Input arquivo</from><to>Juntar
vari&#xe1;vel</to><enabled>N</enabled> </hop>

  <hop> <from>Teste linha cabecalho</from><to>Juntar
vari&#xe1;vel</to><enabled>N</enabled> </hop>

  <hop> <from>Unpivot nome das colunas</from><to>Deleta campos n&#xe3;o
utilizados</to><enabled>Y</enabled> </hop>

  <hop> <from>Deleta campos n&#xe3;o utilizados</from><to>Retirar campos
n&#xe3;o necess&#xe1;rios e copiar nome original</to><enabled>Y</enabled>
</hop>

  <hop> <from>Retirar campos n&#xe3;o necess&#xe1;rios e copiar nome
original</from><to>Retirar acentos</to><enabled>Y</enabled> </hop>

  <hop> <from>Trim e lowercase</from><to>Espa&#xe7;o por
underline</to><enabled>Y</enabled> </hop>

  <hop> <from>Espa&#xe7;o por underline</from><to>Retornar
colunas</to><enabled>Y</enabled> </hop>

  <hop> <from>InputEstrutura</from><to>Juntar
vari&#xe1;vel</to><enabled>Y</enabled> </hop>

  <hop> <from>Obter nome
arquivo</from><to>InputEstrutura</to><enabled>Y</enabled> </hop>

  <hop> <from>Retirar pontua&#xe7;&#xe3;o</from><to>Trim e
lowercase</to><enabled>Y</enabled> </hop>
```

```xml
    </order>

  <step>

    <name>Deleta campos n&#xe3;o utilizados</name>

    <type>FilterRows</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

        </partitioning>

<send_true_to/>

<send_false_to/>

    <compare>

<condition>

 <negated>N</negated>

 <leftvalue>NomeCampo</leftvalue>

 <function>IS NOT NULL</function>

 <rightvalue/>

 </condition>

    </compare>

      <cluster_schema/>
```

```xml
  <remotesteps>    <input>    </input>    <output>    </output> </remotesteps>
<GUI>

      <xloc>352</xloc>

      <yloc>736</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Descarta conteudo</name>

    <type>Dummy</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

      <cluster_schema/>

  <remotesteps>    <input>    </input>    <output>    </output> </remotesteps>
<GUI>

      <xloc>528</xloc>

      <yloc>560</yloc>
```

```xml
        <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Espa&#xe7;o por underline</name>

    <type>ReplaceString</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

    <fields>

      <field>

        <in_stream_name>NomeCampo</in_stream_name>

        <out_stream_name/>

        <use_regex>yes</use_regex>

        <replace_string>&#x5b;&#x5c;s&#x5d;</replace_string>

        <replace_by_string>_</replace_by_string>

        <set_empty_string>N</set_empty_string>
```

```xml
          <replace_field_by_string/>

          <whole_word>no</whole_word>

          <case_sensitive>no</case_sensitive>

        </field>

      </fields>

       <cluster_schema/>

   <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

          <xloc>704</xloc>

          <yloc>672</yloc>

          <draw>Y</draw>

          </GUI>

      </step>


    <step>

      <name>Filtrar linha do cabe&#xe7;alho</name>

      <type>FilterRows</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

             <method>none</method>
```

```xml
          <schema_name/>

        </partitioning>

<send_true_to>Unpivot nome das colunas</send_true_to>

<send_false_to>Descarta conteudo</send_false_to>

      <compare>

<condition>

 <negated>N</negated>

 <leftvalue>NumeroLinha</leftvalue>

 <function>&#x3d;</function>

 <rightvalue>LinhaCabecalho</rightvalue>

 </condition>

      </compare>

        <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>352</xloc>

        <yloc>560</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


   <step>

     <name>Input arquivo</name>

     <type>ExcelInput</type>
```

```xml
<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<header>N</header>

<noempty>N</noempty>

<stoponempty>N</stoponempty>

<filefield/>

<sheetfield>sheet</sheetfield>

<sheetrownumfield/>

<rownumfield/>

<sheetfield>sheet</sheetfield>

<filefield/>

<limit>50</limit>

<encoding/>

<add_to_result_filenames>Y</add_to_result_filenames>

<accept_filenames>N</accept_filenames>

<accept_field/>

<accept_stepname/>
```

```xml
<file>

    <name>&#x24;&#x7b;filename&#x7d;</name>

    <filemask/>

    <exclude_filemask/>

    <file_required>N</file_required>

    <include_subfolders>N</include_subfolders>

</file>

<fields>

    <field>

        <name>campo1</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo2</name>

        <type>String</type>
```

```xml
        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo3</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo4</name>
```

```xml
          <type>String</type>

          <length>-1</length>

          <precision>-1</precision>

          <trim_type>none</trim_type>

          <repeat>N</repeat>

          <format/>

          <currency/>

          <decimal/>

          <group/>

      </field>

      <field>

          <name>campo5</name>

          <type>String</type>

          <length>-1</length>

          <precision>-1</precision>

          <trim_type>none</trim_type>

          <repeat>N</repeat>

          <format/>

          <currency/>

          <decimal/>

          <group/>

      </field>

      <field>
```

```xml
        <name>campo6</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

      </field>

      <field>

        <name>campo7</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

      </field>
```

```xml
<field>

   <name>campo8</name>

   <type>String</type>

   <length>-1</length>

   <precision>-1</precision>

   <trim_type>none</trim_type>

   <repeat>N</repeat>

   <format/>

   <currency/>

   <decimal/>

   <group/>

</field>

<field>

   <name>campo9</name>

   <type>String</type>

   <length>-1</length>

   <precision>-1</precision>

   <trim_type>none</trim_type>

   <repeat>N</repeat>

   <format/>

   <currency/>

   <decimal/>

   <group/>
```

```xml
      </field>

      <field>

        <name>campo10</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

      </field>

      <field>

        <name>campo11</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>
```

```xml
      <group/>

    </field>

    <field>

      <name>campo12</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo13</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>
```

```xml
      <decimal/>

      <group/>

  </field>

  <field>

      <name>campo14</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

  </field>

  <field>

      <name>campo15</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>
```

```xml
      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo16</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo17</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>
```

```xml
        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo18</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo19</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>
```

```xml
      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo20</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo21</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>
```

```xml
      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo22</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

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        <precision>-1</precision>

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        <format/>
```

```xml
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        <decimal/>

        <group/>

    </field>

    <field>

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        <precision>-1</precision>

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        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

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        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>
```

```xml
      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

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      <length>-1</length>

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      <decimal/>

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    <field>

      <name>campo180</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

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```

```xml
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          <format/>

          <currency/>

          <decimal/>

          <group/>

      </field>

      <field>

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          <type>String</type>

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          <precision>-1</precision>

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          <repeat>N</repeat>

          <format/>

          <currency/>

          <decimal/>

          <group/>

      </field>

      <field>

          <name>campo182</name>

          <type>String</type>

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          <precision>-1</precision>
```

```xml
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        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

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        <precision>-1</precision>

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        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

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        <type>String</type>

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```

```xml
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        <currency/>

        <decimal/>

        <group/>

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    <field>

        <name>campo185</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

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        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

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        <type>String</type>
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```xml
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          <repeat>N</repeat>

          <format/>

          <currency/>

          <decimal/>

          <group/>

      </field>

      <field>

          <name>campo187</name>

          <type>String</type>

          <length>-1</length>

          <precision>-1</precision>

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          <format/>

          <currency/>

          <decimal/>

          <group/>

      </field>

      <field>

          <name>campo188</name>
```

```xml
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      <precision>-1</precision>

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      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo189</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>
```

```xml
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            <precision>-1</precision>

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            <format/>

            <currency/>

            <decimal/>

            <group/>

        </field>

        <field>

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            <type>String</type>

            <length>-1</length>

            <precision>-1</precision>

            <trim_type>none</trim_type>

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            <format/>

            <currency/>

            <decimal/>

            <group/>

        </field>
```

```xml
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    <group/>

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    <trim_type>none</trim_type>

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    <format/>

    <currency/>

    <decimal/>

    <group/>
```

```xml
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      <field>

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        <currency/>

        <decimal/>

        <group/>

      </field>

      <field>

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        <precision>-1</precision>

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        <currency/>

        <decimal/>
```

```xml
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    <field>

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      <precision>-1</precision>

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      <length>-1</length>

      <precision>-1</precision>

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```

```xml
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        <currency/>

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        <group/>

    </field>

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```

```xml
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        <format/>

        <currency/>

        <decimal/>

        <group/>

      </field>

    </fields>

    <sheets>

    </sheets>

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    <error_line_skipped>N</error_line_skipped>

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```

```xml
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<error_line_files_destination_directory/>

<error_line_files_extension>error</error_line_files_extension>

<line_number_files_destination_directory/>

<line_number_files_extension>line</line_number_files_extension>

<shortFileFieldName/>

<pathFieldName/>

<hiddenFieldName/>

<lastModificationTimeFieldName/>

<uriNameFieldName/>

<rootUriNameFieldName/>

<extensionFieldName/>

<sizeFieldName/>

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    <yloc>304</yloc>

    <draw>Y</draw>

    </GUI>

   </step>
```

```xml
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        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

    <specification_method>rep_name</specification_method>

    <trans_object_id/>

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    <filename/>

    <directory_path>&#x2f;</directory_path>

    <group_size>0</group_size>

    <group_field/>

    <group_time/>

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/variablemapping>

    <inherit_all_vars>Y</inherit_all_vars>

    </parameters>
```

```xml
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<execution_files_retrieved_field>ExecutionFilesRetrieved</execution_files_retrieved_field>


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    <custom_distribution/>

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            <method>none</method>
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      <prefix>out</prefix>

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<condition>

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 <rightvalue/>

 </condition>

    </compare>

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  <schema/>

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    <description/>

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    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

            <method>none</method>

            <schema_name/>

            </partitioning>

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            <type>Integer</type>

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```xml
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    </fields>

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    <custom_distribution/>

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NomeCampo&#xd;&#xa;&#xd;&#xa;NomeCampo &#x3d; removeDiacritics
&#x28;NomeCampo&#x29;&#x3b;</jsScript_script>

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<jsScript_script>//Script here

function removeDiacritics (str) {

   var defaultDiacriticsRemovalMap = [

{'base':'A',
'letters':/[\u0041\u24B6\uFF21\u00C0\u00C1\u00C2\u1EA6\u1EA4\u1EAA\u1EA8\u00C3\u0100\u0102\u1EB0\u1EAE\u1EB4\u1EB2\u0226\u01E0\u00C4\u01DE\u1EA2\u00C5\u01FA\u01CD\u0200\u0202\u1EA0\u1EAC\u1EB6\u1E00\u0104\u023A\u2C6F]/g},

{'base':'AA','letters':/[\uA732]/g},

{'base':'AE','letters':/[\u00C6\u01FC\u01E2]/g},

{'base':'AO','letters':/[\uA734]/g},

{'base':'AU','letters':/[\uA736]/g},

{'base':'AV','letters':/[\uA738\uA73A]/g},

{'base':'AY','letters':/[\uA73C]/g},

{'base':'B',
'letters':/[\u0042\u24B7\uFF22\u1E02\u1E04\u1E06\u0243\u0182\u0181]/g},
     {'base':'C',
'letters':/[\u0043\u24B8\uFF23\u0106\u0108\u010A\u010C\u00C7\u1E08\u0187\u023B\uA73E]/g},

{'base':'D',
'letters':/[\u0044\u24B9\uFF24\u1E0A\u010E\u1E0C\u1E10\u1E12\u1E0E\u0110\u018B\u018A\u0189\uA779]/g},

{'base':'DZ','letters':/[\u01F1\u01C4]/g},

{'base':'Dz','letters':/[\u01F2\u01C5]/g},

{'base':'E',
'letters':/[\u0045\u24BA\uFF25\u00C8\u00C9\u00CA\u1EC0\u1EBE\u1EC4\u1EC2\u1EBC\u0112\u1E14\u1E16\u0114\u0116\u00CB\u1EBA\u011A\u0204\u0206\u1EB8\u1EC6\u0228\u1E1C\u0118\u1E18\u1E1A\u0190\u018E]/g},
     {'base':'F',
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'letters':/[\u0047\u24BC\uFF27\u01F4\u011C\u1E20\u011E\u0120\u01E6\u0122\u01E4\u0193\uA7A0\uA77D\uA77E]/g},

{'base':'H',
'letters':/[\u0048\u24BD\uFF28\u0124\u1E22\u1E26\u021E\u1E24\u1E28\u1E2A\u0126\u2C67\u2C75\uA78D]/g},

{'base':'I',
'letters':/[\u0049\u24BE\uFF29\u00CC\u00CD\u00CE\u0128\u012A\u012C\u0130\u00CF\u1E2E\u1EC8\u01CF\u0208\u020A\u1ECA\u012E\u1E2C\u0197]/g},

{'base':'J',
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{'base':'K',
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\u020C\u020E\u01A0\u1EDC\u1EDA\u1EE0\u1EDE\u1EE2\u1ECC\u1ED8\u01EA\u01EC\u00D8\u01FE\u0186\u019F\uA74A\uA74C]/g},

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'letters':/[\u0057\u24CC\uFF37\u1E80\u1E82\u0174\u1E86\u1E84\u1E88\u2C72]/g},
      {'base':'X',
'letters':/[\u0058\u24CD\uFF38\u1

E8A\u1E8C]/g},

{'base':'Y',
'letters':/[\u0059\u24CE\uFF39\u1
EF2\u00DD\u0176\u1EF8\u0232\u1E8E\u0178\u1E
F6\u1EF4\u01B3\u024E\u1EFE]/g},

{'base':'Z',
'letters':/[\u005A\u24CF\uFF3A\u0
179\u1E90\u017B\u017D\u1E92\u1E94\u01B5\u02
24\u2C7F\u2C6B\uA762]/g},

{'base':'a',
'letters':/[\u0061\u24D0\uFF41\u1
E9A\u00E0\u00E1\u00E2\u1EA7\u1EA5\u1EAB\u1E
A9\u00E3\u0101\u0103\u1EB1\u1EAF\u1EB5\u1EB
3\u0227\u01E1\u00E4\u01DF\u1EA3\u00E5\u01FB
\u01CE\u0201\u0203\u1EA1\u1EAD\u1EB7\u1E01&
#x5c;u0105\u2C65\u0250]/g},

{'base':'aa','letters':/&#x5
b;\uA733]/g},

{'base':'ae','letters':/&#x5
b;\u00E6\u01FD\u01E3]/g},

{'base':'ao','letters':/&#x5
b;\uA735]/g},

{'base':'au','letters':/&#x5
b;\uA737]/g},

{'base':'av','letters':/&#x5
b;\uA739\uA73B]/g},

{'base':'ay','letters':/&#x5
b;\uA73D]/g},

{'base':'b',
'letters':/[\u0062\u24D1\uFF42\u1
E03\u1E05\u1E07\u0180\u0183\u0253]/g},

      {'base':'c',
'letters':/[\u0063\u24D2\uFF43\u0
107\u0109\u010B\u010D\u00E7\u1E09\u0188\u02
3C\uA73F\u2184]/g},

{'base':'d',
'letters':/[\u0064\u24D3\uFF44\u1
E0B\u010F\u1E0D\u1E11\u1E13\u1E0F\u0111\u01
8C\u0256\u0257\uA77A]/g},

{'base':'dz','letters':/&#x5
b;\u01F3\u01C6]/g},

{'base':'e',
'letters':/[\u0065\u24D4\uFF45\u0
0E8\u00E9\u00EA\u1EC1\u1EBF\u1EC5\u1EC3\u1E
BD\u0113\u1E15\u1E17\u0115\u0117\u00EB\u1EB
B\u011B\u0205\u0207\u1EB9\u1EC7\u0229\u1E1D

\u0119\u1E19\u1E1B\u0247\u025B\u01DD\]/g},
    {'base':'f',
'letters':/[\u0066\u24D5\uFF46\u1E1F\u0192\uA77C]/g},
{'base':'g',
'letters':/[\u0067\u24D6\uFF47\u01F5\u011D\u1E21\u011F\u0121\u01E7\u0123\u01E5\u0260\uA7A1\u1D79\uA77F]/g},
{'base':'h',
'letters':/[\u0068\u24D7\uFF48\u0125\u1E23\u1E27\u021F\u1E25\u1E29\u1E2B\u1E96\u0127\u2C68\u2C76\u0265]/g},
{'base':'hv','letters':/[\u0195]/g},
{'base':'i',
'letters':/[\u0069\u24D8\uFF49\u00EC\u00ED\u00EE\u0129\u012B\u012D\u00EF\u1E2F\u1EC9\u01D0\u0209\u020B\u1ECB\u012F\u1E2D\u0268\u0131]/g},
{'base':'j',
'letters':/[\u006A\u24D9\uFF4A\u0135\u01F0\u0249]/g},
{'base':'k',
'letters':/[\u006B\u24DA\uFF4B\u1E31\u01E9\u1E33\u0137\u1E35\u0199\u2C6A\uA741\uA743\uA745\uA7A3]/g},
{'base':'l',
'letters':/[\u006C\u24DB\uFF4C\u0140\u013A\u013E\u1E37\u1E39\u013C\u1E3D\u1E3B\u017F\u0142\u019A\u026B\u2C61\uA749\uA781\uA747]/g},
{'base':'lj','letters':/[\u01C9]/g},
{'base':'m',
'letters':/[\u006D\u24DC\uFF4D\u1E3F\u1E41\u1E43\u0271\u026F]/g},
{'base':'n',
'letters':/[\u006E\u24DD\uFF4E\u01F9\u0144\u00F1\u1E45\u0148\u1E47\u0146\u1E4B\u1E49\u019E\u0272\u0149\uA791\uA7A5]/g},
{'base':'nj','letters':/[\u01CC]/g},
{'base':'o',
'letters':/[\u006F\u24DE\uFF4F\u00F2\u00F3\u00F4\u1ED3\u1ED1\u1ED7\u1ED5\u00

F5\u1E4D\u022D\u1E4F\u014D\u1E51\u1E53\u014
F\u022F\u0231\u00F6\u022B\u1ECF\u0151\u01D2
\u020D\u020F\u01A1\u1EDD\u1EDB\u1EE1\u1EDF&
#x5c;u1EE3\u1ECD\u1ED9\u01EB\u01ED\u00F8\u01FF&#
x5c;u0254\uA74B\uA74D\u0275]/g},

{'base':'oi','letters':/&#x5
b;\u01A3]/g},

{'base':'ou','letters':/&#x5
b;\u0223]/g},

{'base':'oo','letters':/&#x5
b;\uA74F]/g},

{'base':'p','letters':/&#x5b
;\u0070\u24DF\uFF50\u1E55\u1E57\u01A5\u1D7D
\uA751\uA753\uA755]/g},

{'base':'q','letters':/&#x5b
;\u0071\u24E0\uFF51\u024B\uA757\uA759]&#x2f
;g},

{'base':'r','letters':/&#x5b
;\u0072\u24E1\uFF52\u0155\u1E59\u0159\u0211
\u0213\u1E5B\u1E5D\u0157\u1E5F\u024D\u027D&
#x5c;uA75B\uA7A7\uA783]/g},

{'base':'s','letters':/&#x5b
;\u0073\u24E2\uFF53\u00DF\u015B\u1E65\u015D
\u1E61\u0161\u1E67\u1E63\u1E69\u0219\u015F&
#x5c;u023F\uA7A9\uA785\u1E9B]/g},

{'base':'t','letters':/&#x5b
;\u0074\u24E3\uFF54\u1E6B\u1E97\u0165\u1E6D
\u021B\u0163\u1E71\u1E6F\u0167\u01AD\u0288&
#x5c;u2C66\uA787]/g},

{'base':'tz','letters':/&#x5
b;\uA729]/g},

{'base':'u','letters':/&#x5b
;\u0075\u24E4\uFF55\u00F9\u00FA\u00FB\u0169
\u1E79\u016B\u1E7B\u016D\u00FC\u01DC\u01D8&
#x5c;u01D6\u01DA\u1EE7\u016F\u0171\u01D4\u0215&#
x5c;u0217\u01B0\u1EEB\u1EE9\u1EEF\u1EED\u1EF1&#x
5c;u1EE5\u1E73\u0173\u1E77\u1E75\u0289]/g&#
x7d;,

{'base':'v','letters':/&#x5b
;\u0076\u24E5\uFF56\u1E7D\u1E7F\u028B\uA75F
\u028C]/g},

{'base':'vy','letters':/&#x5
b;\uA761]/g},

{'base':'w','letters':/&#x5b
;\u0077\u24E6\uFF57\u1E81\u1E83\u0175\u1E87
\u1E85\u1E98\u1E89\u2C73]/g},

{'base':'x','letters':/[\u0078\u24E7\uFF58\u1E8B\u1E8D]/g},

{'base':'y','letters':/[\u0079\u24E8\uFF59\u1EF3\u00FD\u0177\u1EF9\u0233\u1E8F\u00FF\u1EF7\u1E99\u1EF5\u01B4\u024F\u1EFF]/g},

{'base':'z','letters':/[\u007A\u24E9\uFF5A\u017A\u1E91\u017C\u017E\u1E93\u1E95\u01B6\u0225\u0240\u2C6C\uA763]/g}
 ];

  for(var i=0; i<defaultDiacriticsRemovalMap.length; i++) {
    str = str.replace(defaultDiacriticsRemovalMap[i].letters, defaultDiacriticsRemovalMap[i].base);
 }

  return str;

}</jsScript_script>

      </jsScript>   </jsScripts>   <fields>   <field>
<name>NomeCampo</name>

       <rename>NomeCampo</rename>

       <type>String</type>

       <length>-1</length>

       <precision>-1</precision>

       <replace>Y</replace>

     </field>   </fields>   <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

       <xloc>560</xloc>

       <yloc>832</yloc>

       <draw>Y</draw>

       </GUI>

     </step>

```xml
    <step>

      <name>Retirar campos n&#xe3;o necess&#xe1;rios e copiar nome
original</name>

      <type>SelectValues</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

      <fields>        <field>          <name>NomeCampo</name>

        <rename/>

        <length>-2</length>

        <precision>-2</precision>

      </field>        <field>          <name>NomeCampo</name>

        <rename>NomeCampoOriginal</rename>

        <length>-2</length>

        <precision>-2</precision>

      </field>        <field>          <name>IndiceCampo</name>

        <rename/>

        <length>-2</length>
```

```xml
        <precision>-2</precision>

      </field>          <select_unspecified>N</select_unspecified>

      <meta>          <name>IndiceCampo</name>

        <rename>IndiceCampo</rename>

        <type>Integer</type>

        <length>-2</length>

        <precision>-2</precision>

        <conversion_mask/>

        <date_format_lenient>false</date_format_lenient>

        <date_format_locale/>

        <date_format_timezone/>

        <lenient_string_to_number>false</lenient_string_to_number>

        <encoding/>

        <decimal_symbol/>

        <grouping_symbol/>

        <currency_symbol/>

        <storage_type/>

      </meta>    </fields>      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>352</xloc>

      <yloc>832</yloc>

      <draw>Y</draw>
```

```
          </GUI>

        </step>


    <step>

      <name>Retirar pontua&#xe7;&#xe3;o</name>

      <type>ReplaceString</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>

          </partitioning>

      <fields>

        <field>

          <in_stream_name>NomeCampo</in_stream_name>

          <out_stream_name/>

          <use_regex>yes</use_regex>


<replace_string>&#x5b;.,&#x5c;&#x2f;&#x23;&#x21;&#x24;&#x25;&#x5c;&#x5e;&#x3f;
&#x2b;&#x21;&#x26;&#x5c;&#x2a;&#x3b;&#x3a;&#x7b;&#x7d;&#x3d;&#x5c;-
&#x60;&#x7c;&#x7e;&#x28;&#x29;&#xb0;&#xba;&#xaa;&#xb9;&#xb2;&#xb3;&#x5c;s&#x5d
;</replace_string>

          <replace_by_string> </replace_by_string>
```

```xml
      <set_empty_string>N</set_empty_string>

      <replace_field_by_string/>

      <whole_word>no</whole_word>

      <case_sensitive>no</case_sensitive>

   </field>

   <field>

      <in_stream_name>NomeCampo</in_stream_name>

      <out_stream_name/>

      <use_regex>yes</use_regex>

      <replace_string>&#x5c;s&#x2b;</replace_string>

      <replace_by_string> </replace_by_string>

      <set_empty_string>N</set_empty_string>

      <replace_field_by_string/>

      <whole_word>no</whole_word>

      <case_sensitive>no</case_sensitive>

   </field>

   <field>

      <in_stream_name>NomeCampo</in_stream_name>

      <out_stream_name/>

      <use_regex>yes</use_regex>

      <replace_string>&#x5e;1</replace_string>

      <replace_by_string>_1</replace_by_string>

      <set_empty_string>N</set_empty_string>
```

```xml
      <replace_field_by_string/>

      <whole_word>no</whole_word>

      <case_sensitive>no</case_sensitive>

  </field>

  <field>

      <in_stream_name>NomeCampo</in_stream_name>

      <out_stream_name/>

      <use_regex>yes</use_regex>

      <replace_string>&#x5e;2</replace_string>

      <replace_by_string>_2</replace_by_string>

      <set_empty_string>N</set_empty_string>

      <replace_field_by_string/>

      <whole_word>no</whole_word>

      <case_sensitive>no</case_sensitive>

  </field>

  <field>

      <in_stream_name>NomeCampo</in_stream_name>

      <out_stream_name/>

      <use_regex>yes</use_regex>

      <replace_string>&#x5e;3</replace_string>

      <replace_by_string>_3</replace_by_string>

      <set_empty_string>N</set_empty_string>

      <replace_field_by_string/>
```

```xml
        <whole_word>no</whole_word>

        <case_sensitive>no</case_sensitive>

    </field>

    <field>

        <in_stream_name>NomeCampo</in_stream_name>

        <out_stream_name/>

        <use_regex>yes</use_regex>

        <replace_string>&#x5e;4</replace_string>

        <replace_by_string>_4</replace_by_string>

        <set_empty_string>N</set_empty_string>

        <replace_field_by_string/>

        <whole_word>no</whole_word>

        <case_sensitive>no</case_sensitive>

    </field>

    <field>

        <in_stream_name>NomeCampo</in_stream_name>

        <out_stream_name/>

        <use_regex>yes</use_regex>

        <replace_string>&#x5e;5</replace_string>

        <replace_by_string>_5</replace_by_string>

        <set_empty_string>N</set_empty_string>

        <replace_field_by_string/>

        <whole_word>no</whole_word>
```

```xml
      <case_sensitive>no</case_sensitive>

</field>

<field>

   <in_stream_name>NomeCampo</in_stream_name>

   <out_stream_name/>

   <use_regex>yes</use_regex>

   <replace_string>&#x5e;6</replace_string>

   <replace_by_string>_6</replace_by_string>

   <set_empty_string>N</set_empty_string>

   <replace_field_by_string/>

   <whole_word>no</whole_word>

   <case_sensitive>no</case_sensitive>

</field>

<field>

   <in_stream_name>NomeCampo</in_stream_name>

   <out_stream_name/>

   <use_regex>yes</use_regex>

   <replace_string>&#x5e;7</replace_string>

   <replace_by_string>_7</replace_by_string>

   <set_empty_string>N</set_empty_string>

   <replace_field_by_string/>

   <whole_word>no</whole_word>

   <case_sensitive>no</case_sensitive>
```

```xml
        </field>

        <field>

            <in_stream_name>NomeCampo</in_stream_name>

            <out_stream_name/>

            <use_regex>yes</use_regex>

            <replace_string>&#x5e;8</replace_string>

            <replace_by_string>_8</replace_by_string>

            <set_empty_string>N</set_empty_string>

            <replace_field_by_string/>

            <whole_word>no</whole_word>

            <case_sensitive>no</case_sensitive>

        </field>

        <field>

            <in_stream_name>NomeCampo</in_stream_name>

            <out_stream_name/>

            <use_regex>yes</use_regex>

            <replace_string>&#x5e;9</replace_string>

            <replace_by_string>_9</replace_by_string>

            <set_empty_string>N</set_empty_string>

            <replace_field_by_string/>

            <whole_word>no</whole_word>

            <case_sensitive>no</case_sensitive>

        </field>
```

```xml
      <field>

        <in_stream_name>NomeCampo</in_stream_name>

        <out_stream_name/>

        <use_regex>yes</use_regex>

        <replace_string>&#x5e;0</replace_string>

        <replace_by_string>_0</replace_by_string>

        <set_empty_string>N</set_empty_string>

        <replace_field_by_string/>

        <whole_word>no</whole_word>

        <case_sensitive>no</case_sensitive>

      </field>

    </fields>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>704</xloc>

      <yloc>832</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Retornar colunas</name>

    <type>RowsToResult</type>
```

```xml
<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

  <cluster_schema/>

<remotesteps>  <input>  </input>  <output>  </output> </remotesteps>
<GUI>

    <xloc>704</xloc>

    <yloc>576</yloc>

    <draw>Y</draw>

    </GUI>

  </step>


 <step>

  <name>Teste input arquivo</name>

  <type>ExcelInput</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>
```

```xml
<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

  <header>N</header>

  <noempty>N</noempty>

  <stoponempty>N</stoponempty>

  <filefield/>

  <sheetfield>sheet</sheetfield>

  <sheetrownumfield/>

  <rownumfield/>

  <sheetfield>sheet</sheetfield>

  <filefield/>

  <limit>50</limit>

  <encoding/>

  <add_to_result_filenames>Y</add_to_result_filenames>

  <accept_filenames>N</accept_filenames>

  <accept_field/>

  <accept_stepname/>

  <file>

    <name>C&#x3a;&#x5c;MonitoramentoPDE&#x5c;Fonte Dados&#x5c;DCFSP
Notificados&#x5c;TAB_DCFSP_NOTIFICADOS_20150129.xlsx</name>

    <filemask/>
```

```xml
      <exclude_filemask/>

      <file_required>N</file_required>

      <include_subfolders>N</include_subfolders>

  </file>

  <fields>

    <field>

      <name>campo1</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo2</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>
```

```xml
        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo3</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo4</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>
```

```xml
      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

  </field>

  <field>

    <name>campo5</name>

    <type>String</type>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

    <repeat>N</repeat>

    <format/>

    <currency/>

    <decimal/>

    <group/>

  </field>

  <field>

    <name>campo6</name>

    <type>String</type>

    <length>-1</length>
```

```
        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo7</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo8</name>

        <type>String</type>
```

```xml
        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo9</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo10</name>
```

```
        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo11</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>
```

```xml
      <name>campo12</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo13</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

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        <type>String</type>

        <length>-1</length>
```

```xml
        <precision>-1</precision>

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        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo168</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo169</name>

        <type>String</type>
```

```xml
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        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo170</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

        <repeat>N</repeat>

        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo171</name>
```

```xml
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      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo172</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>
```

```xml
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      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo174</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

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      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>
```

```xml
<field>

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  <precision>-1</precision>

  <trim_type>none</trim_type>

  <repeat>N</repeat>

  <format/>

  <currency/>

  <decimal/>

  <group/>

</field>

<field>

  <name>campo176</name>

  <type>String</type>

  <length>-1</length>

  <precision>-1</precision>

  <trim_type>none</trim_type>

  <repeat>N</repeat>

  <format/>

  <currency/>

  <decimal/>

  <group/>
```

```xml
    </field>

    <field>

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      <precision>-1</precision>

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      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo178</name>

      <type>String</type>

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      <precision>-1</precision>

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      <currency/>

      <decimal/>
```

```xml
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    </field>

    <field>

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      <precision>-1</precision>

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      <length>-1</length>

      <precision>-1</precision>

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      <currency/>
```

```xml
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        <group/>

    </field>

    <field>

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        <precision>-1</precision>

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        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo182</name>

        <type>String</type>

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        <precision>-1</precision>

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```xml
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        <decimal/>

        <group/>

    </field>

    <field>

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        <precision>-1</precision>

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        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo184</name>

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        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

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```xml
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      <decimal/>

      <group/>

    </field>

    <field>

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      <currency/>

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    <field>

      <name>campo186</name>

      <type>String</type>

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      <precision>-1</precision>

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```
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      <format/>

      <currency/>

      <decimal/>

      <group/>

   </field>

   <field>

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      <type>String</type>

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      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

   </field>

   <field>

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      <precision>-1</precision>
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      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo189</name>

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      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo190</name>

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```xml
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            <format/>

            <currency/>

            <decimal/>

            <group/>

        </field>

        <field>

            <name>campo191</name>

            <type>String</type>

            <length>-1</length>

            <precision>-1</precision>

            <trim_type>none</trim_type>

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            <format/>

            <currency/>

            <decimal/>

            <group/>

        </field>

        <field>

            <name>campo192</name>

            <type>String</type>
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```xml
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      <precision>-1</precision>

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      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo193</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo194</name>
```

```
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      <precision>-1</precision>

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      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>

      <name>campo195</name>

      <type>String</type>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

    <field>
```

```xml
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        <precision>-1</precision>

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        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>

    <field>

        <name>campo197</name>

        <type>String</type>

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        <precision>-1</precision>

        <trim_type>none</trim_type>

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        <format/>

        <currency/>

        <decimal/>

        <group/>

    </field>
```

```xml
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    <precision>-1</precision>
    <trim_type>none</trim_type>
    <repeat>N</repeat>
    <format/>
    <currency/>
    <decimal/>
    <group/>
</field>
<field>
    <name>campo199</name>
    <type>String</type>
    <length>-1</length>
    <precision>-1</precision>
    <trim_type>none</trim_type>
    <repeat>N</repeat>
    <format/>
    <currency/>
    <decimal/>
    <group/>
```

```xml
      </field>

    <field>

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      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

      <repeat>N</repeat>

      <format/>

      <currency/>

      <decimal/>

      <group/>

    </field>

  </fields>

<sheets>

</sheets>

<strict_types>N</strict_types>

<error_ignored>N</error_ignored>

<error_line_skipped>N</error_line_skipped>

<bad_line_files_destination_directory/>

<bad_line_files_extension>warning</bad_line_files_extension>

<error_line_files_destination_directory/>

<error_line_files_extension>error</error_line_files_extension>
```

```xml
<line_number_files_destination_directory/>

<line_number_files_extension>line</line_number_files_extension>

<shortFileFieldName/>

<pathFieldName/>

<hiddenFieldName/>

<lastModificationTimeFieldName/>

<uriNameFieldName/>

<rootUriNameFieldName/>

<extensionFieldName/>

<sizeFieldName/>

<spreadsheet_type>SAX_POI</spreadsheet_type>

  <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>112</xloc>

    <yloc>464</yloc>

    <draw>Y</draw>

    </GUI>

  </step>


 <step>

  <name>Teste linha cabecalho</name>

  <type>GetVariable</type>
```

```xml
<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<fields>

  <field>

    <name>LinhaCabecalho</name>

    <variable>4</variable>

    <type>Integer</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

  </field>

</fields>

 <cluster_schema/>
```

```xml
 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>112</xloc>

      <yloc>384</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Trim e lowercase</name>

    <type>StringOperations</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

    <fields>

      <field>

        <in_stream_name>NomeCampo</in_stream_name>

        <out_stream_name/>

        <trim_type>both</trim_type>
```

```xml
        <lower_upper>lower</lower_upper>

        <padding_type>none</padding_type>

        <pad_char/>

        <pad_len/>

        <init_cap>no</init_cap>

        <mask_xml>none</mask_xml>

        <digits>none</digits>

        <remove_special_characters>none</remove_special_characters>

      </field>

    </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>704</xloc>

      <yloc>752</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Unpivot nome das colunas</name>

    <type>Normaliser</type>

    <description/>
```

```xml
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<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

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    <value>1</value>

    <norm>NomeCampo</norm>

    </field>      <field>         <name>campo2</name>

    <value>2</value>

    <norm>NomeCampo</norm>

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    <norm>NomeCampo</norm>

    </field>      <field>         <name>campo5</name>

    <value>5</value>

    <norm>NomeCampo</norm>
```

```xml
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<norm>NomeCampo</norm>

</field>      <field>         <name>campo7</name>

<value>7</value>

<norm>NomeCampo</norm>

</field>      <field>         <name>campo8</name>

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</field>      <field>         <name>campo9</name>

<value>9</value>

<norm>NomeCampo</norm>

</field>      <field>         <name>campo10</name>

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</field>      <field>         <name>campo11</name>

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<norm>NomeCampo</norm>

</field>      <field>         <name>campo12</name>

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<norm>NomeCampo</norm>

</field>      <field>         <name>campo13</name>

<value>13</value>
```

```xml
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<norm>NomeCampo</norm>

</field>      <field>        <name>campo15</name>

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</field>      <field>        <name>campo16</name>

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</field>      <field>        <name>campo17</name>

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</field>      <field>        <name>campo18</name>

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</field>      <field>        <name>campo20</name>

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<norm>NomeCampo</norm>

</field>      <field>        <name>campo21</name>
```

```xml
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</field>       <field>          <name>campo22</name>

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</field>       <field>          <name>campo23</name>

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<norm>NomeCampo</norm>

</field>       <field>          <name>campo28</name>

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<norm>NomeCampo</norm>
```

```xml
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</field>        <field>          <name>campo30</name>

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<norm>NomeCampo</norm>

</field>        <field>          <name>campo36</name>

<value>36</value>
```

```
<norm>NomeCampo</norm>

</field>        <field>        <name>campo37</name>

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</field>        <field>        <name>campo38</name>

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<norm>NomeCampo</norm>

</field>        <field>        <name>campo44</name>
```

```xml
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</field>        <field>            <name>campo45</name>
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<norm>NomeCampo</norm>
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```

```xml
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</field>		<field>		<name>campo53</name>

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</field>		<field>		<name>campo55</name>

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<norm>NomeCampo</norm>

</field>		<field>		<name>campo59</name>

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```

```xml
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</field>        <field>          <name>campo61</name>

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<norm>NomeCampo</norm>

</field>        <field>          <name>campo67</name>
```

```xml
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</field>        <field>          <name>campo74</name>
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```

</field>		<field>

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</field>		<field>		<name>campo76</name>

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</field>		<field>

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  <hop> <from>Join int pelo nome da coluna</from><to>Ordenar pelo
indice</to><enabled>Y</enabled> </hop>

  <hop> <from>Obter colunas formatadas</from><to>Filtrar
data</to><enabled>Y</enabled> </hop>

  <hop> <from>Obter colunas formatadas</from><to>Filtrar
numerica</to><enabled>Y</enabled> </hop>

  <hop> <from>Ordenar pelo nome coluna numerica para o merge
join</from><to>Join num pelo nome da coluna</to><enabled>Y</enabled> </hop>

  <hop> <from>Filtrar data</from><to>Renomear campos
data</to><enabled>Y</enabled> </hop>

  <hop> <from>Renomear campos data</from><to>Ordenar pelo nome coluna data
```

```
para o merge join</to><enabled>Y</enabled> </hop>

  <hop> <from>Ordenar pelo nome coluna data para o merge join</from><to>Join
data pelo nome da coluna</to><enabled>Y</enabled> </hop>

  <hop> <from>Filtrar numerica</from><to>Renomear campos
numerica</to><enabled>Y</enabled> </hop>

  <hop> <from>Renomear campos numerica</from><to>Ordenar pelo nome coluna
numerica para o merge join</to><enabled>Y</enabled> </hop>

  <hop> <from>Filtrar inteiro</from><to>Renomear campos
inteiro</to><enabled>Y</enabled> </hop>

  <hop> <from>Renomear campos inteiro</from><to>Ordenar pelo nome coluna
inteiro para o merge join</to><enabled>Y</enabled> </hop>

  <hop> <from>Obter colunas formatadas</from><to>Filtrar
inteiro</to><enabled>Y</enabled> </hop>

  <hop> <from>Ordenar pelo nome coluna inteiro para o merge
join</from><to>Join int pelo nome da coluna</to><enabled>Y</enabled> </hop>

  </order>

  <step>

    <name>Comando criar tabela no banco</name>

    <type>ScriptValueMod</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>
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<compatible>N</compatible>

<optimizationLevel>9</optimizationLevel>

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	<jsScript_name>IniciaCreateTable</jsScript_name>

	<jsScript_script>&#x2f;&#x2f;Script
here&#xd;&#xa;&#xd;&#xa;setVariable&#x28; &#x27;SQL_CREATE_TABLE&#x27;
&#xd;&#xa;                    ,&#x27;CREATE TABLE &#x27; &#x2b;
getVariable&#x28;&#x27;SCHEMA_FONTE_DADOS&#x27;,&#x27;fonte_dados&#x27;&#x29;
&#x2b; &#x27;.&#x27; &#x2b;
getVariable&#x28;&#x27;NOME_TABELA&#x27;,&#x27;&#x27;&#x29; &#xd;&#xa;
    &#x2b; &#x27;&#x5c;n&#x28;&#x27;&#xd;&#xa;
    ,&#x27;s&#x27;&#x29;&#x3b;</jsScript_script>

	</jsScript>	<jsScript>		<jsScript_type>0</jsScript_type>

	<jsScript_name>CamposCreateTable</jsScript_name>

	<jsScript_script>&#x2f;&#x2f;Script here&#xd;&#xa;&#xd;&#xa;var
tipo_coluna&#x3b;&#xd;&#xa;&#xd;&#xa;if&#x28;trim&#x28;NomeCampo&#x29;
&#x3d;&#x3d; trim&#x28;coluna_data&#x29;&#x29;&#x7b;&#xd;&#xa;  tipo_coluna
&#x3d; &#x27;date&#x27;&#x3b;&#xd;&#xa;&#x7d;else&#x7b;&#xd;&#xa;
    if&#x28;trim&#x28;NomeCampo&#x29; &#x3d;&#x3d;
trim&#x28;coluna_numerica&#x29;&#x29;&#x7b;&#xd;&#xa;        tipo_coluna
&#x3d; &#x27;numeric&#x27;&#x3b;&#xd;&#xa; &#x7d;else&#x7b;&#xd;&#xa;
    if&#x28;trim&#x28;NomeCampo&#x29; &#x3d;&#x3d;
trim&#x28;coluna_inteiro&#x29;&#x29;&#x7b;&#xd;&#xa;
    tipo_coluna &#x3d; &#x27;integer&#x27;&#x3b;&#xd;&#xa;
    &#x7d;else&#x7b;&#xd;&#xa;                tipo_coluna &#x3d;
&#x27;text&#x27;&#x3b;&#xd;&#xa;        &#x7d;&#xd;&#xa;
    &#x7d;&#xd;&#xa;&#x7d;&#xd;&#xa;&#xd;&#xa;setVariable&#x28;
&#x27;SQL_CREATE_TABLE&#x27; &#xd;&#xa;
    ,getVariable&#x28;&#x27;SQL_CREATE_TABLE&#x27;,&#x27;&#x27;&#x29;&#xd;&#xa;                &#x2b; &#x27;&#x5c;n&#x5c;t &#x27; &#x2b; NomeCampo
&#x2b; &#x27; &#x27; &#x2b; tipo_coluna &#x2b; &#x27;,&#x27;&#xd;&#xa;
    ,&#x27;s&#x27;&#x29;&#x3b;</jsScript_script>

	</jsScript>	<jsScript>		<jsScript_type>2</jsScript_type>

	<jsScript_name>EncerraCreateTable</jsScript_name>

	<jsScript_script>&#x2f;&#x2f;Script
```

here

setVariable('SQL_CREATE_TABLE'



          ,getVariable('SQL_CREATE_TABLE','')

                        + '\n\t data_referencia
date,'
                    + '\n\t data_carga
timestamp'
                      + '\n
);'

          ,'s');

//Alert(ge
tVariable('SQL_CREATE_TABLE',''));</js
Script_script>

      </jsScript>   </jsScripts>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

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      <yloc>880</yloc>

      <draw>Y</draw>

      </GUI>

    </step>

  <step>

    <name>Filtrar data</name>

    <type>FilterRows</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

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          <schema_name/>

          </partitioning>

<send_true_to>Renomear campos data</send_true_to>

<send_false_to/>

    <compare>

<condition>

 <negated>N</negated>

 <leftvalue>tipo</leftvalue>

 <function>&#x3d;</function>

 <rightvalue/>

 <value><name>constant</name><type>String</type><text>data</text><length>-
1</length><precision>-1</precision><isnull>N</isnull><mask/></value>
</condition>

    </compare>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
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      <yloc>400</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>
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```xml
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<type>FilterRows</type>

<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

    </partitioning>

<send_true_to>Renomear campos inteiro</send_true_to>

<send_false_to/>

    <compare>

<condition>

 <negated>N</negated>

 <leftvalue>tipo</leftvalue>

 <function>&#x3d;</function>

 <rightvalue/>

 <value><name>constant</name><type>String</type><text>inteiro</text><length>-1</length><precision>-1</precision><isnull>N</isnull><mask/></value>
</condition>

    </compare>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>
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```xml
        <xloc>784</xloc>

        <yloc>656</yloc>

        <draw>Y</draw>

        </GUI>

    </step>


  <step>

    <name>Filtrar numerica</name>

    <type>FilterRows</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

        </partitioning>
<send_true_to>Renomear campos numerica</send_true_to>

<send_false_to/>

    <compare>

<condition>

 <negated>N</negated>

 <leftvalue>tipo</leftvalue>
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```xml
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<rightvalue/>

<value><name>constant</name><type>String</type><text>numerica</text><length>-1</length><precision>-1</precision><isnull>N</isnull><mask/></value>
</condition>

    </compare>

    <cluster_schema/>

<remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

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        <yloc>528</yloc>

        <draw>Y</draw>

        </GUI>

    </step>


  <step>

    <name>Join data pelo nome da coluna</name>

    <type>MergeJoin</type>

    <description/>

    <distribute>N</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

            <method>none</method>
```

```xml
        <schema_name/>

      </partitioning>

<join_type>LEFT OUTER</join_type>

<step1>Ordenar pelo nome para o merge join</step1>

<step2>Ordenar pelo nome coluna data para o merge join</step2>

    <keys_1>

      <key>NomeCampo</key>

    </keys_1>

    <keys_2>

      <key>coluna_data</key>

    </keys_2>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>160</xloc>

      <yloc>464</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Join int pelo nome da coluna</name>

    <type>MergeJoin</type>

    <description/>
```

```xml
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<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<join_type>LEFT OUTER</join_type>

<step1>Join num pelo nome da coluna</step1>

<step2>Ordenar pelo nome coluna inteiro para o merge join</step2>

    <keys_1>

      <key>NomeCampo</key>

    </keys_1>

    <keys_2>

      <key>coluna_inteiro</key>

    </keys_2>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
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      <yloc>720</yloc>

      <draw>Y</draw>

      </GUI>
```

```xml
    </step>

  <step>

    <name>Join num pelo nome da coluna</name>

    <type>MergeJoin</type>

    <description/>

    <distribute>N</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

        </partitioning>

<join_type>LEFT OUTER</join_type>

<step1>Join data pelo nome da coluna</step1>

<step2>Ordenar pelo nome coluna numerica para o merge join</step2>

    <keys_1>

      <key>NomeCampo</key>

    </keys_1>

    <keys_2>

      <key>coluna_numerica</key>

    </keys_2>

     <cluster_schema/>
```

```xml
 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
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      <yloc>592</yloc>

      <draw>Y</draw>

      </GUI>

    </step>



  <step>

    <name>Normalizar colunas de data</name>

    <type>Normaliser</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

    <typefield>id</typefield>

    <fields>       <field>           <name>COLUNA_DATA_1</name>

        <value>1</value>

        <norm>coluna_data</norm>

        </field>       <field>           <name>COLUNA_DATA_2</name>
```

```xml
<value>2</value>

<norm>coluna_data</norm>

</field>        <field>          <name>COLUNA_DATA_3</name>

<value>3</value>

<norm>coluna_data</norm>

</field>        <field>          <name>COLUNA_DATA_4</name>

<value>4</value>

<norm>coluna_data</norm>

</field>        <field>          <name>COLUNA_DATA_5</name>

<value>5</value>

<norm>coluna_data</norm>

</field>        <field>          <name>COLUNA_DATA_6</name>

<value>6</value>

<norm>coluna_data</norm>

</field>        <field>          <name>COLUNA_DATA_7</name>

<value>7</value>

<norm>coluna_data</norm>

</field>        <field>          <name>COLUNA_DATA_8</name>

<value>8</value>

<norm>coluna_data</norm>

</field>        <field>          <name>COLUNA_DATA_9</name>

<value>9</value>

<norm>coluna_data</norm>
```

</field>   <field>   <name>COLUNA_DATA_10</name>

<value>10</value>

<norm>coluna_data</norm>

</field>   <field>   <name>FORMATO_COLUNA_DATA_1</name>

<value>1</value>

<norm>formato_data</norm>

</field>   <field>   <name>FORMATO_COLUNA_DATA_2</name>

<value>2</value>

<norm>formato_data</norm>

</field>   <field>   <name>FORMATO_COLUNA_DATA_3</name>

<value>3</value>

<norm>formato_data</norm>

</field>   <field>   <name>FORMATO_COLUNA_DATA_4</name>

<value>4</value>

<norm>formato_data</norm>

</field>   <field>   <name>FORMATO_COLUNA_DATA_5</name>

<value>5</value>

<norm>formato_data</norm>

</field>   <field>   <name>FORMATO_COLUNA_DATA_6</name>

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<norm>formato_data</norm>

</field>   <field>   <name>FORMATO_COLUNA_DATA_7</name>

<value>7</value>

```xml
      <norm>formato_data</norm>

      </field>      <field>         <name>FORMATO_COLUNA_DATA_8</name>

      <value>8</value>

      <norm>formato_data</norm>

      </field>      <field>         <name>FORMATO_COLUNA_DATA_9</name>

      <value>9</value>

      <norm>formato_data</norm>

      </field>      <field>         <name>FORMATO_COLUNA_DATA_10</name>

      <value>10</value>

      <norm>formato_data</norm>

      </field>      </fields>      <cluster_schema/>

  <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>656</xloc>

      <yloc>464</yloc>

      <draw>Y</draw>

      </GUI>

    </step>



  <step>

    <name>Normalizar colunas inteiro</name>

    <type>Normaliser</type>

    <description/>
```

```xml
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<custom_distribution/>

<copies>1</copies>

    <partitioning>

       <method>none</method>

       <schema_name/>

       </partitioning>

<typefield>id</typefield>

 <fields>     <field>          <name>COLUNA_INTEIRO_1</name>

     <value>1</value>

     <norm>coluna_inteiro</norm>

     </field>     <field>          <name>COLUNA_INTEIRO_2</name>

     <value>2</value>

     <norm>coluna_inteiro</norm>

     </field>     <field>          <name>COLUNA_INTEIRO_3</name>

     <value>3</value>

     <norm>coluna_inteiro</norm>

     </field>     <field>          <name>COLUNA_INTEIRO_4</name>

     <value>4</value>

     <norm>coluna_inteiro</norm>

     </field>     <field>          <name>COLUNA_INTEIRO_5</name>

     <value>5</value>

     <norm>coluna_inteiro</norm>
```

```xml
      </field>        <field>         <name>COLUNA_INTEIRO_6</name>

      <value>6</value>

      <norm>coluna_inteiro</norm>

      </field>        <field>         <name>COLUNA_INTEIRO_7</name>

      <value>7</value>

      <norm>coluna_inteiro</norm>

      </field>        <field>         <name>COLUNA_INTEIRO_8</name>

      <value>8</value>

      <norm>coluna_inteiro</norm>

      </field>        <field>         <name>COLUNA_INTEIRO_9</name>

      <value>9</value>

      <norm>coluna_inteiro</norm>

      </field>        <field>         <name>COLUNA_INTEIRO_10</name>

      <value>10</value>

      <norm>coluna_inteiro</norm>

      </field>        </fields>      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>656</xloc>

      <yloc>720</yloc>

      <draw>Y</draw>

      </GUI>

    </step>
```

```xml
<step>

  <name>Normalizar colunas num&#xe9;ricas</name>

  <type>Normaliser</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

 <typefield>id</typefield>

 <fields>      <field>        <name>COLUNA_NUMERICA_1</name>

    <value>1</value>

    <norm>coluna_numerica</norm>

    </field>      <field>        <name>COLUNA_NUMERICA_2</name>

    <value>2</value>

    <norm>coluna_numerica</norm>

    </field>      <field>        <name>COLUNA_NUMERICA_3</name>

    <value>3</value>

    <norm>coluna_numerica</norm>

    </field>      <field>        <name>COLUNA_NUMERICA_4</name>

    <value>4</value>
```

```xml
                <norm>coluna_numerica</norm>

        </field>        <field>           <name>COLUNA_NUMERICA_5</name>

        <value>5</value>

        <norm>coluna_numerica</norm>

        </field>        <field>           <name>COLUNA_NUMERICA_6</name>

        <value>6</value>

        <norm>coluna_numerica</norm>

        </field>        <field>           <name>COLUNA_NUMERICA_7</name>

        <value>7</value>

        <norm>coluna_numerica</norm>

        </field>        <field>           <name>COLUNA_NUMERICA_8</name>

        <value>8</value>

        <norm>coluna_numerica</norm>

        </field>        <field>           <name>COLUNA_NUMERICA_9</name>

        <value>9</value>

        <norm>coluna_numerica</norm>

        </field>        <field>           <name>COLUNA_NUMERICA_10</name>

        <value>10</value>

        <norm>coluna_numerica</norm>

        </field>        </fields>     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>656</xloc>
```

```
        <yloc>592</yloc>

        <draw>Y</draw>

        </GUI>

    </step>


    <step>

      <name>Obter colunas formatadas</name>

      <type>TableInput</type>

      <description/>

      <distribute>N</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>

            </partitioning>

      <connection>MonitoramentoPDE_PostgreSQL</connection>

      <sql>SELECT &#xd;&#xa;id_coluna&#xd;&#xa;,id_fonte_dados&#xd;&#xa;,case
tipo when &#x27;territorio&#x27; then &#x27;inteiro&#x27; else tipo end as
tipo&#xd;&#xa;,nome&#xd;&#xa;,formato&#xd;&#xa;,id_territorio&#xd;&#xa;,tipo_t
erritorio FROM sistema.coluna WHERE id_fonte_dados &#x3d;
&#x24;&#x7b;ID_FONTE_DADOS&#x7d;</sql>

      <limit>0</limit>

      <lookup/>

      <execute_each_row>N</execute_each_row>
```

```xml
    <variables_active>Y</variables_active>

    <lazy_conversion_active>N</lazy_conversion_active>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>960</xloc>

      <yloc>528</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Obter maior indice do campo quando houver duplicado</name>

    <type>MemoryGroupBy</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

      <give_back_row>N</give_back_row>

      <group>
```

```xml
          <field>

            <name>NomeCampo</name>

          </field>

        </group>

        <fields>

          <field>

            <aggregate>IndiceCampo</aggregate>

            <subject>IndiceCampo</subject>

            <type>MAX</type>

            <valuefield/>

          </field>

        </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

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        <yloc>272</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Obter relacao de arquivos</name>
```

```xml
<type>RowsFromResult</type>

<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<fields>        <field>          <name>filename</name>

    <type>String</type>

    <length>-1</length>

    <precision>-1</precision>

    </field>        <field>          <name>extension</name>

    <type>String</type>

    <length>-1</length>

    <precision>-1</precision>

    </field>        </fields>      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

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    <yloc>80</yloc>

    <draw>Y</draw>

    </GUI>
```

```xml
      </step>

    <step>

      <name>Obter vari&#xe1;veis colunas data</name>

      <type>GetVariable</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

      <fields>

        <field>

          <name>COLUNA_DATA_1</name>

          <variable>&#x24;&#x7b;COLUNA_DATA_1&#x7d;</variable>

          <type>String</type>

          <format/>

          <currency/>

          <decimal/>

          <group/>

          <length>-1</length>
```

```
        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>FORMATO_COLUNA_DATA_1</name>

        <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_1&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_DATA_2</name>

        <variable>&#x24;&#x7b;COLUNA_DATA_2&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>
```

```xml
        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>FORMATO_COLUNA_DATA_2</name>

        <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_2&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_DATA_3</name>

        <variable>&#x24;&#x7b;COLUNA_DATA_3&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>
```

```
        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>FORMATO_COLUNA_DATA_3</name>

        <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_3&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_DATA_4</name>

        <variable>&#x24;&#x7b;COLUNA_DATA_4&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>
```

```xml
    <decimal/>

    <group/>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

</field>

<field>

    <name>FORMATO_COLUNA_DATA_4</name>

    <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_4&#x7d;</variable>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

</field>

<field>

    <name>COLUNA_DATA_5</name>

    <variable>&#x24;&#x7b;COLUNA_DATA_5&#x7d;</variable>

    <type>String</type>

    <format/>
```

```xml
        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>FORMATO_COLUNA_DATA_5</name>

        <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_5&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_DATA_6</name>

        <variable>&#x24;&#x7b;COLUNA_DATA_6&#x7d;</variable>

        <type>String</type>
```

```xml
      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

  </field>

  <field>

    <name>FORMATO_COLUNA_DATA_6</name>

    <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_6&#x7d;</variable>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

  </field>

  <field>

    <name>COLUNA_DATA_7</name>

    <variable>&#x24;&#x7b;COLUNA_DATA_7&#x7d;</variable>
```

```xml
        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>FORMATO_COLUNA_DATA_7</name>

        <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_7&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_DATA_8</name>
```

```xml
      <variable>&#x24;&#x7b;COLUNA_DATA_8&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>

    <field>

      <name>FORMATO_COLUNA_DATA_8</name>

      <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_8&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>

    <field>
```

```xml
    <name>COLUNA_DATA_9</name>

    <variable>&#x24;&#x7b;COLUNA_DATA_9&#x7d;</variable>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

</field>

<field>

    <name>FORMATO_COLUNA_DATA_9</name>

    <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_9&#x7d;</variable>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

</field>
```

```xml
<field>

    <name>COLUNA_DATA_10</name>

    <variable>&#x24;&#x7b;COLUNA_DATA_10&#x7d;</variable>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

</field>

<field>

    <name>FORMATO_COLUNA_DATA_10</name>

    <variable>&#x24;&#x7b;FORMATO_COLUNA_DATA_10&#x7d;</variable>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>
```

```
        </field>

      </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>800</xloc>

        <yloc>464</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Obter vari&#xe1;veis colunas inteiro</name>

      <type>GetVariable</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>

            </partitioning>

      <fields>
```

```xml
<field>

  <name>COLUNA_INTEIRO_1</name>

  <variable>&#x24;&#x7b;COLUNA_INTEIRO_1&#x7d;</variable>

  <type>String</type>

  <format/>

  <currency/>

  <decimal/>

  <group/>

  <length>-1</length>

  <precision>-1</precision>

  <trim_type>none</trim_type>

</field>

<field>

  <name>COLUNA_INTEIRO_2</name>

  <variable>&#x24;&#x7b;COLUNA_INTEIRO_2&#x7d;</variable>

  <type>String</type>

  <format/>

  <currency/>

  <decimal/>

  <group/>

  <length>-1</length>

  <precision>-1</precision>

  <trim_type>none</trim_type>
```

```
      </field>

      <field>

         <name>COLUNA_INTEIRO_3</name>

         <variable>&#x24;&#x7b;COLUNA_INTEIRO_3&#x7d;</variable>

         <type>String</type>

         <format/>

         <currency/>

         <decimal/>

         <group/>

         <length>-1</length>

         <precision>-1</precision>

         <trim_type>none</trim_type>

      </field>

      <field>

         <name>COLUNA_INTEIRO_4</name>

         <variable>&#x24;&#x7b;COLUNA_INTEIRO_4&#x7d;</variable>

         <type>String</type>

         <format/>

         <currency/>

         <decimal/>

         <group/>

         <length>-1</length>

         <precision>-1</precision>
```

```xml
        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_INTEIRO_5</name>

        <variable>&#x24;&#x7b;COLUNA_INTEIRO_5&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_INTEIRO_6</name>

        <variable>&#x24;&#x7b;COLUNA_INTEIRO_6&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>
```

```xml
        <precision>-1</precision>

        <trim_type>none</trim_type>

      </field>

      <field>

        <name>COLUNA_INTEIRO_7</name>

        <variable>&#x24;&#x7b;COLUNA_INTEIRO_7&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

      </field>

      <field>

        <name>COLUNA_INTEIRO_8</name>

        <variable>&#x24;&#x7b;COLUNA_INTEIRO_8&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>
```

```xml
        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_INTEIRO_9</name>

        <variable>&#x24;&#x7b;COLUNA_INTEIRO_9&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_INTEIRO_10</name>

        <variable>&#x24;&#x7b;COLUNA_INTEIRO_10&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>
```

```
        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

      </field>

    </fields>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>864</xloc>

      <yloc>720</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Obter vari&#xe1;veis colunas num&#xe9;ricas</name>

    <type>GetVariable</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>
```

```xml
        <schema_name/>

      </partitioning>

  <fields>

    <field>

      <name>COLUNA_NUMERICA_1</name>

      <variable>&#x24;&#x7b;COLUNA_NUMERICA_1&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>

    <field>

      <name>COLUNA_NUMERICA_2</name>

      <variable>&#x24;&#x7b;COLUNA_NUMERICA_2&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>
```

```xml
        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_NUMERICA_3</name>

        <variable>&#x24;&#x7b;COLUNA_NUMERICA_3&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

    </field>

    <field>

        <name>COLUNA_NUMERICA_4</name>

        <variable>&#x24;&#x7b;COLUNA_NUMERICA_4&#x7d;</variable>

        <type>String</type>

        <format/>

        <currency/>

        <decimal/>
```

```
    <group/>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

</field>

<field>

    <name>COLUNA_NUMERICA_5</name>

    <variable>&#x24;&#x7b;COLUNA_NUMERICA_5&#x7d;</variable>

    <type>String</type>

    <format/>

    <currency/>

    <decimal/>

    <group/>

    <length>-1</length>

    <precision>-1</precision>

    <trim_type>none</trim_type>

</field>

<field>

    <name>COLUNA_NUMERICA_6</name>

    <variable>&#x24;&#x7b;COLUNA_NUMERICA_6&#x7d;</variable>

    <type>String</type>

    <format/>

    <currency/>
```

```xml
      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>

    <field>

      <name>COLUNA_NUMERICA_7</name>

      <variable>&#x24;&#x7b;COLUNA_NUMERICA_7&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

    </field>

    <field>

      <name>COLUNA_NUMERICA_8</name>

      <variable>&#x24;&#x7b;COLUNA_NUMERICA_8&#x7d;</variable>

      <type>String</type>

      <format/>
```

```xml
      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

  </field>

  <field>

      <name>COLUNA_NUMERICA_9</name>

      <variable>&#x24;&#x7b;COLUNA_NUMERICA_9&#x7d;</variable>

      <type>String</type>

      <format/>

      <currency/>

      <decimal/>

      <group/>

      <length>-1</length>

      <precision>-1</precision>

      <trim_type>none</trim_type>

  </field>

  <field>

      <name>COLUNA_NUMERICA_10</name>

      <variable>&#x24;&#x7b;COLUNA_NUMERICA_10&#x7d;</variable>

      <type>String</type>
```

```xml
        <format/>

        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

      </field>

    </fields>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>816</xloc>

      <yloc>592</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>ObterEstruturaArquivo</name>

    <type>TransExecutor</type>

    <description/>

    <distribute>Y</distribute>
```

```xml
<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<specification_method>rep_name</specification_method>

<trans_object_id/>

<trans_name>ObterEstruturaArquivo</trans_name>

<filename/>

<directory_path>&#x2f;</directory_path>

<group_size>1</group_size>

<group_field/>

<group_time/>

    <parameters>
<variablemapping><variable>filename</variable><field>filename</field><input/><
/variablemapping>


<variablemapping><variable>extension</variable><field>extension</field><input/
></variablemapping>

<inherit_all_vars>Y</inherit_all_vars>

</parameters>

<execution_result_target_step/>

<execution_time_field>ExecutionTime</execution_time_field>

<execution_result_field>ExecutionResult</execution_result_field>
```

```xml
    <execution_errors_field>ExecutionNrErrors</execution_errors_field>

<execution_lines_read_field>ExecutionLinesRead</execution_lines_read_field>

<execution_lines_written_field>ExecutionLinesWritten</execution_lines_written_
field>

<execution_lines_input_field>ExecutionLinesInput</execution_lines_input_field>

<execution_lines_output_field>ExecutionLinesOutput</execution_lines_output_fie
ld>

<execution_lines_rejected_field>ExecutionLinesRejected</execution_lines_reject
ed_field>

<execution_lines_updated_field>ExecutionLinesUpdated</execution_lines_updated_
field>

<execution_lines_deleted_field>ExecutionLinesDeleted</execution_lines_deleted_
field>

<execution_files_retrieved_field>ExecutionFilesRetrieved</execution_files_retr
ieved_field>

<execution_exit_status_field>ExecutionExitStatus</execution_exit_status_field>

    <execution_log_text_field>ExecutionLogText</execution_log_text_field>

<execution_log_channelid_field>ExecutionLogChannelId</execution_log_channelid_
field>

    <result_rows_target_step>Obter maior indice do campo quando houver
duplicado</result_rows_target_step>

        <result_rows_field><name>IndiceCampo</name><type>Integer</type><length>-
1</length><precision>-1</precision></result_rows_field>
```

```
    <result_rows_field><name>NomeCampo</name><type>String</type><length>-
1</length><precision>-1</precision></result_rows_field>

    <result_files_target_step/>

    <result_files_file_name_field>FileName</result_files_file_name_field>

    <executors_output_step/>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>160</xloc>

      <yloc>160</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Ordenar pelo indice</name>

    <type>SortRows</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>
```

```xml
      </partitioning>

    <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

    <prefix>out</prefix>

    <sort_size>1000000</sort_size>

    <free_memory/>

    <compress>N</compress>

    <compress_variable/>

    <unique_rows>N</unique_rows>

  <fields>

    <field>

      <name>IndiceCampo</name>

      <ascending>Y</ascending>

      <case_sensitive>N</case_sensitive>

      <presorted>N</presorted>

    </field>

  </fields>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>160</xloc>

    <yloc>800</yloc>

    <draw>Y</draw>

    </GUI>
```

```xml
    </step>


<step>

  <name>Ordenar pelo nome coluna data para o merge join</name>

  <type>SortRows</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

    <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

    <prefix>out</prefix>

    <sort_size>1000000</sort_size>

    <free_memory/>

    <compress>N</compress>

    <compress_variable/>

    <unique_rows>N</unique_rows>

  <fields>

    <field>

      <name>coluna_data</name>
```

```xml
          <ascending>Y</ascending>

          <case_sensitive>N</case_sensitive>

          <presorted>N</presorted>

        </field>

      </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>384</xloc>

        <yloc>400</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Ordenar pelo nome coluna inteiro para o merge join</name>

      <type>SortRows</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>
```

```
        </partitioning>

      <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

      <prefix>out</prefix>

      <sort_size>1000000</sort_size>

      <free_memory/>

      <compress>N</compress>

      <compress_variable/>

      <unique_rows>N</unique_rows>

    <fields>

      <field>

        <name>coluna_inteiro</name>

        <ascending>Y</ascending>

        <case_sensitive>N</case_sensitive>

        <presorted>N</presorted>

      </field>

    </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>384</xloc>

      <yloc>656</yloc>

      <draw>Y</draw>

      </GUI>
```

```xml
    </step>

<step>

  <name>Ordenar pelo nome coluna numerica para o merge join</name>

  <type>SortRows</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

    <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

    <prefix>out</prefix>

    <sort_size>1000000</sort_size>

    <free_memory/>

    <compress>N</compress>

    <compress_variable/>

    <unique_rows>N</unique_rows>

  <fields>

    <field>

      <name>coluna_numerica</name>
```

```xml
          <ascending>Y</ascending>

          <case_sensitive>N</case_sensitive>

          <presorted>N</presorted>

        </field>

      </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>384</xloc>

        <yloc>528</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step>

      <name>Ordenar pelo nome da coluna data para o merge join</name>

      <type>SortRows</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>
```

```xml
        </partitioning>

      <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

      <prefix>out</prefix>

      <sort_size>1000000</sort_size>

      <free_memory/>

      <compress>N</compress>

      <compress_variable/>

      <unique_rows>N</unique_rows>

    <fields>

      <field>

        <name>coluna_data</name>

        <ascending>Y</ascending>

        <case_sensitive>N</case_sensitive>

        <presorted>N</presorted>

      </field>

    </fields>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>400</xloc>

      <yloc>464</yloc>

      <draw>Y</draw>

      </GUI>
```

```xml
        </step>


<step>

  <name>Ordenar pelo nome da coluna inteiro para o merge join</name>

  <type>SortRows</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

  <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

  <prefix>out</prefix>

  <sort_size>1000000</sort_size>

  <free_memory/>

  <compress>N</compress>

  <compress_variable/>

  <unique_rows>N</unique_rows>

  <fields>

    <field>

      <name>coluna_inteiro</name>
```

```xml
        <ascending>Y</ascending>

        <case_sensitive>N</case_sensitive>

        <presorted>N</presorted>

      </field>

    </fields>

    <cluster_schema/>

  <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>400</xloc>

      <yloc>720</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Ordenar pelo nome da coluna numerica para o merge join</name>

    <type>SortRows</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>
```

```xml
        </partitioning>

      <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

      <prefix>out</prefix>

      <sort_size>1000000</sort_size>

      <free_memory/>

      <compress>N</compress>

      <compress_variable/>

      <unique_rows>N</unique_rows>

    <fields>

      <field>

        <name>coluna_numerica</name>

        <ascending>Y</ascending>

        <case_sensitive>N</case_sensitive>

        <presorted>N</presorted>

      </field>

    </fields>

      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>400</xloc>

      <yloc>592</yloc>

      <draw>Y</draw>

      </GUI>
```

```
      </step>


<step>

  <name>Ordenar pelo nome para o merge join</name>

  <type>SortRows</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

        </partitioning>

    <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

    <prefix>out</prefix>

    <sort_size>1000000</sort_size>

    <free_memory/>

    <compress>Y</compress>

    <compress_variable/>

    <unique_rows>N</unique_rows>

  <fields>

    <field>

      <name>NomeCampo</name>
```

```xml
      <ascending>Y</ascending>

      <case_sensitive>N</case_sensitive>

      <presorted>N</presorted>

    </field>

  </fields>

   <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>160</xloc>

      <yloc>368</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Renomear campos data</name>

    <type>SelectValues</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>
```

```xml
          </partitioning>

    <fields>        <field>          <name>nome</name>

       <rename>coluna_data</rename>

       <length>-2</length>

       <precision>-2</precision>

     </field>        <field>          <name>formato</name>

       <rename>formato_data</rename>

       <length>-2</length>

       <precision>-2</precision>

     </field>          <select_unspecified>Y</select_unspecified>

   </fields>      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

       <xloc>624</xloc>

       <yloc>400</yloc>

       <draw>Y</draw>

       </GUI>

   </step>


  <step>

    <name>Renomear campos inteiro</name>

    <type>SelectValues</type>

    <description/>
```

```xml
<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

    </partitioning>

  <fields>      <field>          <name>nome</name>

    <rename>coluna_inteiro</rename>

    <length>-2</length>

    <precision>-2</precision>

  </field>         <select_unspecified>Y</select_unspecified>

  </fields>      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>624</xloc>

    <yloc>656</yloc>

    <draw>Y</draw>

    </GUI>

  </step>


  <step>

    <name>Renomear campos numerica</name>

    <type>SelectValues</type>
```

```xml
<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

  <fields>      <field>          <name>nome</name>

    <rename>coluna_numerica</rename>

    <length>-2</length>

    <precision>-2</precision>

  </field>          <select_unspecified>Y</select_unspecified>

  </fields>      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>624</xloc>

    <yloc>528</yloc>

    <draw>Y</draw>

    </GUI>

  </step>


  <step>
```

```xml
<name>Retorna nome das colunas e ordem</name>

<type>RowsToResult</type>

<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>160</xloc>

    <yloc>960</yloc>

    <draw>Y</draw>

    </GUI>

    </step>


  <step_error_handling>

  </step_error_handling>

   <slave-step-copy-partition-distribution>

</slave-step-copy-partition-distribution>

   <slave_transformation>N</slave_transformation>
```

```
        </transformation>
```

VariavelArquivoCarga.ktr

```
<tr
ans
for
mat
ion
>

        <info>

            <name>VariavelArquivoCarga</name>

            <description/>

            <extended_description/>

            <trans_version/>

            <trans_type>Normal</trans_type>

            <trans_status>0</trans_status>

            <directory>&#x2f;</directory>

            <parameters>

            </parameters>

            <log>

    <trans-log-table><connection/>

    <schema/>

    <table/>

    <size_limit_lines/>

    <interval/>
```

<field><id>CLIENT</id><enabled>N</enabled><name>CLIENT</name></field></trans-log-table>

<perf-log-table>

<table/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>SEQ_NR</id><enabled>Y</enabled><name>SEQ_NR</name></field><field><id>LOGDATE</id><enabled>Y</enabled><name>LOGDATE</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STEPNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>STEP_COPY</id><enabled>Y</enabled><name>STEP_COPY</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>E

RRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><
id>OUTPUT_BUFFER_ROWS</id><enabled>Y</enabled><name>OUTPUT_BUFFER_ROWS</name><
/field></perf-log-table>

<channel-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><fiel
d><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field
><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>
LOGGING_OBJECT_TYPE</id><enabled>Y</enabled><name>LOGGING_OBJECT_TYPE</name></
field><field><id>OBJECT_NAME</id><enabled>Y</enabled><name>OBJECT_NAME</name><
/field><field><id>OBJECT_COPY</id><enabled>Y</enabled><name>OBJECT_COPY</name>
</field><field><id>ROOT_CHANNEL_ID</id><enabl
ed>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

<step-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><fiel
d><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><i

d>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>LOG_FIELD</id><enabled>N</enabled><name>LOG_FIELD</name></field></step-log-table>

<metrics-log-table>

<table/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>METRICS_DATE</id><enabled>Y</enabled><name>METRICS_DATE</name></field><field><id>METRICS_CODE</id><enabled>Y</enabled><name>METRICS_CODE</name></field><field><id>METRICS_DESCRIPTION</id><enabled>Y</enabled><name>METRICS_DESCRIPTION</name></field><field><id>METRICS_SUBJECT</id><enabled>Y</enabled><name>METRICS_SUBJECT</name></field><field><id>METRICS_TYPE</id><enabled>Y</enabled><name>METRICS_TYPE</name></field><field><id>METRICS_VALUE</id><enabled>Y</enabled><name>METRICS_VALUE</name></field></metrics-log-table>

    </log>

    <maxdate>

      <connection/>

      <table/>

      <field/>

      <offset>0.0</offset>

      <maxdiff>0.0</maxdiff>

    </maxdate>

    <size_rowset>10000</size_rowset>

    <sleep_time_empty>50</sleep_time_empty>

```xml
<unique_connections>N</unique_connections>

<feedback_shown>Y</feedback_shown>

<feedback_size>50000</feedback_size>

<using_thread_priorities>Y</using_thread_priorities>

<shared_objects_file/>

<capture_step_performance>N</capture_step_performance>

<step_performance_capturing_delay>1000</step_performance_capturing_delay>

<step_performance_capturing_size_limit>100</step_performance_capturing_size_limit>

<dependencies>

</dependencies>

<partitionschemas>

</partitionschemas>

<slaveservers>

</slaveservers>

<clusterschemas>

</clusterschemas>
<created_user>-</created_user>

<created_date>2016&#x2f;06&#x2f;16 10&#x3a;44&#x3a;05.327</created_date>

<modified_user>-</modified_user>

<modified_date>2016&#x2f;06&#x2f;16 10&#x3a;44&#x3a;33.374</modified_date>

<key_for_session_key/>

<is_key_private>N</is_key_private>
```

```xml
    </info>

    <notepads>

    </notepads>

    <order>

    <hop> <from>Obter nome dos arquivos para carga</from><to>Passar nome arquivo
para extrair a data</to><enabled>Y</enabled> </hop>

    </order>

    <step>

      <name>Obter nome dos arquivos para carga</name>

      <type>RowsFromResult</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

        </partitioning>

    <fields>      <field>          <name>short_filename</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        </field>      </fields>      <cluster_schema/>

  <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
```

```xml
        <GUI>

            <xloc>312</xloc>

            <yloc>291</yloc>

            <draw>Y</draw>

            </GUI>

        </step>


    <step>

      <name>Passar nome arquivo para extrair a data</name>

      <type>SetVariable</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>

            </partitioning>

      <fields>

        <field>

          <field_name>short_filename</field_name>

          <variable_name>NOME_ARQUIVO_CARGA</variable_name>

          <variable_type>JVM</variable_type>
```

```
                  <default_value/>

                </field>

              </fields>

          <use_formatting>Y</use_formatting>

            <cluster_schema/>

  <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

            <xloc>312</xloc>

            <yloc>403</yloc>

            <draw>Y</draw>

            </GUI>

          </step>



    <step_error_handling>

    </step_error_handling>

      <slave-step-copy-partition-distribution>

</slave-step-copy-partition-distribution>

      <slave_transformation>N</slave_transformation>



    </transformation>
```

VariavelTransformation.ktr

```
<tr
ans
for
mat
ion
```

>

      `<info>`

        `<name>VariavelTransformation</name>`

        `<description/>`

        `<extended_description/>`

        `<trans_version/>`

        `<trans_type>Normal</trans_type>`

        `<trans_status>0</trans_status>`

        `<directory>/</directory>`

        `<parameters>`

        `</parameters>`

        `<log>`

`<trans-log-table><connection/>`

`<schema/>`

`<table/>`

`<size_limit_lines/>`

`<interval/>`

`<timeout_days/>`

`<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STATUS</id><enabled>Y</enabled><name>STATUS</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><en`

abled>Y</enabled><name>LINES_REJECTED</name><subject/></field><field><id>CLIENT</id><enabled>N</e nabled><name>CLIENT</name></field></trans-log-table>

<perf-log-table><connection/>

<schema/>

<table/>

<interval/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><fiel d><id>SEQ_NR</id><enabled>Y</enabled><name>SEQ_NR</name></field><field><id>LOG DATE</id><enabled>Y</enabled><name>LOGDATE</name></field><field><id>TRANSNAME< /id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STEPNAME</id> <enabled>Y</enabled><name>STEPNAME</name></field><field><id>STEP_COPY</id><ena bled>Y</enabled><name>STEP_COPY</name></field><field><id>LINES_READ</id><enabl ed>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><ena bled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id ><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT< /id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPU T</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_RE JECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>E RRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>INPUT_BUFF ER_ROWS</id><enabled>Y</enabled><name>INPUT_BUFFER_ROWS</name></field><field>< id>OUTPUT_BUFFER_ROWS</id><enabled>Y</enabled><name>OUTPUT_BUFFER_ROWS</name>< /field></perf-log-table>

<channel-log-table><connection/>

<schema/>

<table/>

<field><id>ROOT_CHANNEL_ID</id><enabled>Y</enabled><name>ROOT_CHANNEL_ID</name></field></channel-log-table>

<step-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><field><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>TRANSNAME</id><enabled>Y</enabled><name>TRANSNAME</name></field><field><id>STEPNAME</id><enabled>Y</enabled><name>STEPNAME</name></field><field><id>STEP_COPY</id><enabled>Y</enabled><name>STEP_COPY</name></field><field><id>LINES_READ</id><enabled>Y</enabled><name>LINES_READ</name></field><field><id>LINES_WRITTEN</id><enabled>Y</enabled><name>LINES_WRITTEN</name></field><field><id>LINES_UPDATED</id><enabled>Y</enabled><name>LINES_UPDATED</name></field><field><id>LINES_INPUT</id><enabled>Y</enabled><name>LINES_INPUT</name></field><field><id>LINES_OUTPUT</id><enabled>Y</enabled><name>LINES_OUTPUT</name></field><field><id>LINES_REJECTED</id><enabled>Y</enabled><name>LINES_REJECTED</name></field><field><id>ERRORS</id><enabled>Y</enabled><name>ERRORS</name></field><field><id>LOG_FIELD</id><enabled>N</enabled><name>LOG_FIELD</name></field></step-log-table>

<metrics-log-table><connection/>

<schema/>

<table/>

<timeout_days/>

```
<field><id>ID_BATCH</id><enabled>Y</enabled><name>ID_BATCH</name></field><fiel
d><id>CHANNEL_ID</id><enabled>Y</enabled><name>CHANNEL_ID</name></field><field
><id>LOG_DATE</id><enabled>Y</enabled><name>LOG_DATE</name></field><field><id>
METRICS_DATE</id><enabled>Y</enabled><name>METRICS_DATE</name></field><field><
id>METRICS_CODE</id><enabled>Y</enabled><name>METRICS_CODE</name></field><fiel
d><id>METRICS_DESCRIPTION</id><enabled>Y</enabled><name>METRICS_DESCRIPTION</n
ame></field><field><id>METRICS_SUBJECT</id><enabled>Y</enabled><name>METRICS_S
UBJECT</name></field><field><id>METRICS_TYPE</id><enabled>Y</enabled><name>MET
RICS_TYPE</name></field><field><id>METRICS_VALUE</id><enabled>Y</enabled><name
>METRICS_VALUE</name></field></metrics-log-table>

    </log>

    <maxdate>

      <connection/>

      <table/>

      <field/>

      <offset>0.0</offset>

      <maxdiff>0.0</maxdiff>

    </maxdate>

    <size_rowset>10000</size_rowset>

    <sleep_time_empty>50</sleep_time_empty>

    <sleep_time_full>50</sleep_time_full>

    <unique_connections>N</unique_connections>

    <feedback_shown>Y</feedback_shown>

    <feedback_size>50000</feedback_size>

    <using_thread_priorities>Y</using_thread_priorities>

    <shared_objects_file/>

    <capture_step_performance>N</capture_step_performance>
```

```
            <step_performance_capturing_delay>1000</step_performance_capturing_delay>


<step_performance_capturing_size_limit>100</step_performance_capturing_size_li
mit>

    <dependencies>

    </dependencies>

    <partitionschemas>

    </partitionschemas>

    <slaveservers>

    </slaveservers>

    <clusterschemas>

    </clusterschemas>

  <created_user>-</created_user>

  <created_date>2016&#x2f;06&#x2f;17 10&#x3a;46&#x3a;13.326</created_date>

  <modified_user>-</modified_user>

  <modified_date>2016&#x2f;06&#x2f;17 15&#x3a;30&#x3a;13.374</modified_date>


<key_for_session_key>H4sIAAAAAAAAAMAAAAAAAAAAAA&#x3d;</key_for_session_key>

    <is_key_private>N</is_key_private>

  </info>

  <notepads>

  </notepads>

  <order>

  <hop> <from>Contar def processos</from><to>Juntar
cont</to><enabled>Y</enabled> </hop>
```

```
    <hop> <from>Contar param</from><to>Juntar cont</to><enabled>Y</enabled>
</hop>

    <hop> <from>Definicao processos de carga</from><to>Contar def
processos</to><enabled>Y</enabled> </hop>

    <hop> <from>Definicao processos de carga</from><to>Processos de carga e
parametros</to><enabled>Y</enabled> </hop>

    <hop> <from>Filtrar primeira linha</from><to>Obter tipo
arquivo</to><enabled>Y</enabled> </hop>

    <hop> <from>Juntar cont</from><to>Verificar cont</to><enabled>Y</enabled>
</hop>

    <hop> <from>Obter relacao de arquivos</from><to>Filtrar primeira
linha</to><enabled>Y</enabled> </hop>

    <hop> <from>Obter tipo arquivo</from><to>Processos de carga e
parametros</to><enabled>Y</enabled> </hop>

    <hop> <from>Obter transformacao de carga</from><to>Contar
param</to><enabled>Y</enabled> </hop>

    <hop> <from>Obter transformacao de carga</from><to>Seta Trans
Carga</to><enabled>Y</enabled> </hop>

    <hop> <from>Processos de carga e parametros</from><to>Obter transformacao de
carga</to><enabled>Y</enabled> </hop>

    <hop> <from>Verificar cont</from><to>Tipo de input n&#xe3;o
encontrado</to><enabled>Y</enabled> </hop>

    <hop> <from>Verificar cont</from><to>Validar
processo</to><enabled>Y</enabled> </hop>

  </order>

  <step>

    <name>Contar def processos</name>

    <type>MemoryGroupBy</type>

    <description/>
```

```xml
<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

    </partitioning>

  <give_back_row>N</give_back_row>

  <group>

  </group>

  <fields>

    <field>

      <aggregate>ContProcessosDef</aggregate>

      <subject>NomeProcessoEstrutura</subject>

      <type>COUNT_ANY</type>

      <valuefield/>

    </field>

  </fields>

  <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

    <xloc>576</xloc>

    <yloc>480</yloc>

    <draw>Y</draw>
```

```xml
      </GUI>

    </step>


<step>

  <name>Contar param</name>

  <type>MemoryGroupBy</type>

  <description/>

  <distribute>Y</distribute>

  <custom_distribution/>

  <copies>1</copies>

      <partitioning>

        <method>none</method>

        <schema_name/>

      </partitioning>

    <give_back_row>N</give_back_row>

    <group>

    </group>

    <fields>

      <field>

        <aggregate>ContProcessosParam</aggregate>

        <subject>NomeProcessoEstrutura</subject>

        <type>COUNT_ANY</type>

        <valuefield/>
```

```xml
      </field>

    </fields>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>576</xloc>

      <yloc>576</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Definicao processos de carga</name>

    <type>DataGrid</type>

    <description/>

    <distribute>N</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

    <fields>
```

```xml
<field>

   <name>TipoArquivoInput</name>

   <type>Integer</type>

   <format/>

   <currency/>

   <decimal/>

   <group/>

   <length>-1</length>

   <precision>-1</precision>

   <set_empty_string>N</set_empty_string>

</field>

<field>

   <name>NomeProcessoEstrutura</name>

   <type>String</type>

   <format/>

   <currency/>

   <decimal/>

   <group/>

   <length>-1</length>

   <precision>-1</precision>

   <set_empty_string>N</set_empty_string>

</field>

<field>
```

ExtensaoInput

            <type>String</type>

            <format/>

            <currency/>

            <decimal/>

            <group/>

            <length>-1</length>

            <precision>-1</precision>

            <set_empty_string>N</set_empty_string>

        </field>

        <field>

            <name>NomeProcessoDados</name>

            <type>String</type>

            <format/>

            <currency/>

            <decimal/>

            <group/>

            <length>-1</length>

            <precision>-1</precision>

            <set_empty_string>N</set_empty_string>

        </field>

    </fields>

    <data>

```xml
      <line>
<item>1</item><item>InputEstruturaTexto</item><item/><item>InputDadosTexto</item> </line>

      <line>
<item>2</item><item>InputEstruturaXlsx</item><item>xlsx</item><item>InputDadosXlsx</item> </line>

      <line>
<item>2</item><item>InputEstruturaXls</item><item>xls</item><item>InputDadosXls</item> </line>

      <line>
<item>3</item><item>InputEstruturaDbf</item><item/><item>InputDadosDbf</item> </line>

    </data>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>576</xloc>

      <yloc>368</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Filtrar primeira linha</name>

    <type>SampleRows</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>
```

```
        <copies>1</copies>

            <partitioning>

                <method>none</method>

                <schema_name/>

                </partitioning>

        <linesrange>1</linesrange>

        <linenumfield>NumeroLinha</linenumfield>

         <cluster_schema/>

 <remotesteps>   <input>    </input>    <output>    </output> </remotesteps>
<GUI>

            <xloc>416</xloc>

            <yloc>288</yloc>

            <draw>Y</draw>

            </GUI>

        </step>


    <step>

        <name>Juntar cont</name>

        <type>JoinRows</type>

        <description/>

        <distribute>Y</distribute>

        <custom_distribution/>

        <copies>1</copies>
```

```xml
        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

      <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

      <prefix>out</prefix>

      <cache_size>500</cache_size>

      <main/>

    <compare>

<condition>

 <negated>N</negated>

 <leftvalue/>

 <function>&#x3d;</function>

 <rightvalue/>

 </condition>

    </compare>

     <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>704</xloc>

      <yloc>576</yloc>

      <draw>Y</draw>

      </GUI>

    </step>
```

```xml
    <step>

      <name>Obter relacao de arquivos</name>

      <type>RowsFromResult</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

      <fields>      <field>          <name>filename</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        </field>      <field>          <name>extension</name>

        <type>String</type>

        <length>-1</length>

        <precision>-1</precision>

        </field>      </fields>      <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>
```

```xml
            <xloc>416</xloc>

            <yloc>192</yloc>

            <draw>Y</draw>

          </GUI>

      </step>


    <step>

      <name>Obter tipo arquivo</name>

      <type>GetVariable</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>

          </partitioning>

      <fields>

        <field>

          <name>TipoArquivoParametro</name>

          <variable>&#x24;&#x7b;TIPO_ARQUIVO&#x7d;</variable>

          <type>Integer</type>

          <format/>
```

```xml
        <currency/>

        <decimal/>

        <group/>

        <length>-1</length>

        <precision>-1</precision>

        <trim_type>none</trim_type>

      </field>

    </fields>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

      <xloc>416</xloc>

      <yloc>368</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Obter transformacao de carga</name>

    <type>FilterRows</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>
```

```xml
        <partitioning>

          <method>none</method>

          <schema_name/>

        </partitioning>

<send_true_to>Seta Trans Carga</send_true_to>

<send_false_to>Contar param</send_false_to>

    <compare>

<condition>

 <negated>N</negated>

 <conditions>

  <condition>

   <negated>N</negated>

   <leftvalue>TipoArquivoParametro</leftvalue>

   <function>&#x3d;</function>

   <rightvalue>TipoArquivoInput</rightvalue>

   </condition>

  <condition>

   <negated>N</negated>

   <operator>AND</operator>

   <leftvalue>extension</leftvalue>

   <function>&#x3d;</function>

   <rightvalue>ExtensaoInput</rightvalue>

   </condition>
```

```xml
          </conditions>

        </condition>

            </compare>

          <cluster_schema/>

    <remotesteps>    <input>    </input>    <output>    </output> </remotesteps>
<GUI>

            <xloc>416</xloc>

            <yloc>576</yloc>

            <draw>Y</draw>

            </GUI>

        </step>


      <step>

        <name>Processos de carga e parametros</name>

        <type>JoinRows</type>

        <description/>

        <distribute>Y</distribute>

        <custom_distribution/>

        <copies>1</copies>

            <partitioning>

              <method>none</method>

              <schema_name/>

              </partitioning>
```

```
        <directory>&#x25;&#x25;java.io.tmpdir&#x25;&#x25;</directory>

        <prefix>out</prefix>

        <cache_size>500</cache_size>

        <main/>

      <compare>

<condition>

 <negated>N</negated>

 <leftvalue/>

 <function>&#x3d;</function>

 <rightvalue/>

 </condition>

      </compare>

        <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>416</xloc>

        <yloc>480</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


   <step>

      <name>Seta Trans Carga</name>

      <type>SetVariable</type>
```

```xml
<description/>

<distribute>Y</distribute>

<custom_distribution/>

<copies>1</copies>

    <partitioning>

      <method>none</method>

      <schema_name/>

      </partitioning>

<fields>

  <field>

    <field_name>NomeProcessoEstrutura</field_name>

    <variable_name>TRANS_CARGA_ESTRUTURA</variable_name>

    <variable_type>JVM</variable_type>

    <default_value/>

    </field>

  <field>

    <field_name>NomeProcessoDados</field_name>

    <variable_name>TRANS_CARGA_DADOS</variable_name>

    <variable_type>JVM</variable_type>

    <default_value/>

    </field>

  </fields>

<use_formatting>Y</use_formatting>
```

```xml
      <cluster_schema/>

 <remotesteps>    <input>    </input>    <output>    </output> </remotesteps>
<GUI>

      <xloc>416</xloc>

      <yloc>688</yloc>

      <draw>Y</draw>

      </GUI>

    </step>


  <step>

    <name>Tipo de input n&#xe3;o encontrado</name>

    <type>Abort</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

      <row_threshold>0</row_threshold>

      <message>Tipo de input n&#xe3;o encontrado</message>

      <always_log_rows>Y</always_log_rows>
```

```xml
        <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>816</xloc>

        <yloc>480</yloc>

        <draw>Y</draw>

        </GUI>

    </step>


  <step>

    <name>Validar processo</name>

    <type>Dummy</type>

    <description/>

    <distribute>Y</distribute>

    <custom_distribution/>

    <copies>1</copies>

        <partitioning>

          <method>none</method>

          <schema_name/>

          </partitioning>

    <cluster_schema/>

 <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>928</xloc>
```

```xml
          <yloc>576</yloc>

          <draw>Y</draw>

          </GUI>

      </step>


    <step>

      <name>Verificar cont</name>

      <type>FilterRows</type>

      <description/>

      <distribute>Y</distribute>

      <custom_distribution/>

      <copies>1</copies>

          <partitioning>

            <method>none</method>

            <schema_name/>

            </partitioning>

<send_true_to>Validar processo</send_true_to>

<send_false_to>Tipo de input n&#xe3;o encontrado</send_false_to>

      <compare>

<condition>

 <negated>N</negated>

 <leftvalue>ContProcessosDef</leftvalue>

 <function>&#x3e;</function>
```

```xml
    <rightvalue>ContProcessosParam</rightvalue>

  </condition>

      </compare>

       <cluster_schema/>

  <remotesteps>   <input>   </input>   <output>   </output> </remotesteps>
<GUI>

        <xloc>816</xloc>

        <yloc>576</yloc>

        <draw>Y</draw>

        </GUI>

      </step>


    <step_error_handling>

    </step_error_handling>

     <slave-step-copy-partition-distribution>

</slave-step-copy-partition-distribution>

     <slave_transformation>N</slave_transformation>


</transformation>
```