LAMPIRAN LISTING PROGRAM

1. index.php

<?php

include 'functions.php';

if(!$\_SESSION['login'])

header('location:login.php');

?>

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge" />

<title>Apriori PHP</title>

<link href="favicon.ico" rel="icon" />

<meta content="width=device-width, initial-scale=1, maximum-scale=1, user-scalable=no" name="viewport" />

<!--CSS-->

<link rel="stylesheet" href="assets/bootstrap/css/bootstrap.min.css">

<link rel="stylesheet" href="assets/font-awesome/css/font-awesome.min.css">

<link rel="stylesheet" href="assets/css/sb-admin-2.min.css">

<link rel="stylesheet" href="assets/css/AdminLTE.min.css">

<link href="assets/css/metisMenu.min.css" rel="stylesheet">

<link href="assets/css/jquery.dataTables.min.css" rel="stylesheet"/>

<!--Javascript-->

<script src="assets/jquery/jquery.min.js"></script>

<script src="assets/bootstrap/js/bootstrap.min.js"></script>

<script src="assets/js/jquery.dataTables.min.js"></script>

<script src="assets/js/metisMenu.min.js"></script>

<script type="text/javascript">

$(document).ready(function(){

$('#datatable').DataTable({

responsive: true

});

});

</script>

<script>

function printContent(el){

var restorepage = document.body.innerHTML;

var printcontent = document.getElementById(el).innerHTML;

document.body.innerHTML = printcontent;

window.print();

document.body.innerHTML = restorepage;

}

</script>

</head>

<body>

<div id="wrapper">

<!-- Navigation -->

<nav class="navbar navbar-default navbar-static-top" role="navigation" style="margin-bottom: 0" id="sidebar">

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-collapse">

<span class="sr-only">Toggle navigation</span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<a class="navbar-brand" href="#">APRIORI</a>

</div>

<!-- /.navbar-header -->

<ul class="nav navbar-top-links navbar-right">

<li><a class="btn btn-default" href="aksi.php?act=logout"><i class="fa fa-sign-out fa-fw"></i> Logout</a></li>

</ul>

<!-- /.navbar-top-links -->

<div class="navbar-primary sidebar" role="navigation">

<div class="sidebar-nav navbar-collapse">

<ul class="nav" id="side-menu">

<li>

<a href="?m=beranda"><i class="fa fa-dashboard fa-fw"></i> Beranda</a>

</li>

<li>

<a href="?m=data\_barang"><i class="fa fa-table fa-fw"></i> Data Barang</a>

</li>

<li>

<a href="?m=data\_transaksi"><i class="fa fa-shopping-cart fa-fw"></i> Data Transaksi</a>

</li>

<li>

<a href="?m=apriori"><i class="fa fa-signal fa-fw"></i> Analisis Apriori</a>

</li>

<li>

<a href="?m=password"><i class="fa fa-wrench fa-fw"></i> Ubah Password</a>

</li>

</ul>

</div>

<!-- /.sidebar-collapse -->

</div>

<!-- /.navbar-static-side -->

</nav>

<!-- Page Content -->

<div id="page-wrapper">

<?php

if(file\_exists($mod.'.php'))

include $mod.'.php';

else

include 'beranda.php';

?>

<!-- /.container-fluid -->

</div>

<!-- /#page-wrapper -->

</div>

<!-- /#wrapper -->

<footer class="sticky-footer">

<div class="container">

<div class="text-center">

<small>Copyright © 2018</small>

</div>

</div>

</footer>

<!-- jQuery -->

<script src="assets/jquery/jquery.min.js"></script>

<script src="assets/js/jquery.dataTables.min.js"></script>

<!-- Bootstrap Core JavaScript -->

<script src="assets/bootstrap/js/bootstrap.min.js"></script>

<!-- Custom Theme JavaScript -->

<script src="assets/js/sb-admin-2.js"></script>

</body>

</html>

1. login.php

<?php

include 'functions.php';

?><!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge" />

<title>Apriori PHP</title>

<link href="favicon.ico" rel="icon" />

<meta content="width=device-width, initial-scale=1, maximum-scale=1, user-scalable=no" name="viewport" />

<link rel="stylesheet" href="assets/bootstrap/css/bootstrap.min.css">

<link rel="stylesheet" href="assets/font-awesome/css/font-awesome.min.css">

<link rel="stylesheet" href="assets/css/sb-admin-2.min.css">

<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,600,700,300italic,400italic,600italic">

<script src="assets/jquery/jquery.min.js"></script>

<script src="assets/bootstrap/js/bootstrap.min.js"></script>

<script src="assets/js/sb-admin-2.min.js"></script>

</head>

<body class="hold-transition login-page">

<div class="container">

<div class="row">

<div class="col-md-4 col-md-offset-4">

<div class="login-panel panel panel-default">

<div class="panel-heading">

<h3 class="panel-title">Form login</h3>

</div>

<div class="panel-body">

<form action="?m=login" method="post">

<?php if($\_POST) include 'aksi.php'?>

<fieldset>

<div class="form-group">

<input type="text" class="form-control" placeholder="Masukkan Username" name="user" autofocus>

</div>

<div class="form-group">

<input type="password" class="form-control" placeholder="Masukkan Password" name="pass" >

</div>

<!-- Change this to a button or input when using this as a form -->

<button type="submit" class="btn btn-lg btn-primary btn-block">Login</button>

</fieldset>

</form>

</div>

</div>

</div>

</div>

</div>

</body>

</html>

1. beranda.php

<section class="content-header">

<div class="text-center">

<h3>Selamat Datang di Aplikasi Analisis Data Penjualan Menggunakan Algoritma Apriori </h3>

<h3>Pada Toko Outdoor Adventure Land Jatiwaringin </h3><hr>

</div>

</section>

1. data\_barang.php

<section class="content-header">

<h1>Data Barang</h1><hr>

</section>

<section class="content">

<div class="panel panel-default">

<div class="panel-heading">

<form class="form-inline">

<input type="hidden" name="m" value="barang" />

<div>

<a class="btn btn-primary" href="?m=tambah\_barang"><span class="glyphicon glyphicon-plus"></span> Tambah Data</a>

</div>

</form>

</div>

<div class="table-responsive1 panel-body">

<table class="table table-bordered table-hover table-striped" id="datatable">

<thead>

<tr>

<th>No</th>

<th>Nama Barang</th>

<th>Aksi</th>

</tr>

</thead>

<?php

$q = esc\_field($\_GET['q']);

$rows = $db->get\_results("SELECT \* FROM tb\_barang

WHERE nama\_barang LIKE '%$q%'

ORDER BY id\_barang");

$no=1;

foreach($rows as $row):?>

<tr>

<td><?=$no++?></td>

<td><?=$row->nama\_barang?></td>

<td class="nw">

<a class="btn btn-xs btn-warning" href="?m=ubah\_barang&ID=<?=$row->id\_barang?>"><span class="glyphicon glyphicon-edit"></span> Ubah</a>

<a class="btn btn-xs btn-danger" href="aksi.php?act=hapus\_barang&ID=<?=$row->id\_barang?>" onclick="return confirm('Menghapus data dapat berpengaruh terhadap data transaksi yang mengandung data barang yang akan dihapus. Apakah anda yakin ingin menghapus data?')"><span class="glyphicon glyphicon-trash"></span> Hapus</a>

</td>

</tr>

<?php endforeach; ?>

</table>

</div>

</div>

</section>

1. tambah\_barang.php

<section class="content-header">

<h1>Tambah Data Barang</h1><hr>

</section>

<section class="content">

<div class="row">

<div class="col-sm-6">

<?php if($\_POST) include'aksi.php'?>

<form method="post">

<div class="form-group">

<label>Nama Barang <span class="text-danger">\*</span></label>

<input class="form-control" type="text" name="nama\_barang" value="<?=set\_value('nama\_barang')?>"/>

</div>

<div class="form-group">

<button class="btn btn-primary"><span class="glyphicon glyphicon-save"></span> Simpan</button>

<a class="btn btn-danger" href="?m=data\_barang"><span class="glyphicon glyphicon-arrow-left"></span> Kembali</a>

</div>

</form>

</div>

</div>

</section>

1. ubah\_barang.php

<?php

$row = $db->get\_row("SELECT \* FROM tb\_barang WHERE id\_barang='$\_GET[ID]'");

?>

<section class="content-header">

<h1>Ubah Data Barang</h1><hr>

</section>

<section class="content">

<div class="row">

<div class="col-sm-6">

<?php if($\_POST) include'aksi.php'?>

<form method="post">

<div class="form-group">

<label>Nama Barang <span class="text-danger">\*</span></label>

<input class="form-control" type="text" name="nama\_barang" value="<?=set\_value('nama\_barang', $row->nama\_barang)?>"/>

</div>

<div class="form-group">

<button class="btn btn-primary"><span class="glyphicon glyphicon-save"></span> Simpan</button>

<a class="btn btn-danger" href="?m=data\_barang"><span class="glyphicon glyphicon-arrow-left"></span> Kembali</a>

</div>

</form>

</div>

</div>

</section>

1. data\_transaksi.php

<section class="content-header">

<h1>Data Transaksi</h1><hr>

</section>

<section class="content">

<div class="panel panel-default">

<div class="panel-heading">

<form class="form-inline">

<input type="hidden" name="m" value="data" />

<div class="form-group">

<a class="btn btn-primary" href="?m=tambah\_transaksi"><span class="glyphicon glyphicon-plus"></span> Tambah</a>

</div>

</form>

</div>

<div class="table-responsive1 panel-body">

<table class="table table-bordered table-hover table-striped" id="datatable">

<thead>

<tr>

<th>No</th>

<th>Data</th>

<th>Tanggal</th>

<th>Aksi</th>

</tr>

</thead>

<?php

$rows = $db->get\_results("SELECT \* FROM tb\_transaksi ORDER BY tanggal");

$data = convert\_data($rows, $KATEGORI);

$no=0;

foreach($rows as $row):?>

<tr>

<td><?=++$no?></td>

<td><?=implode(', ', $data[$row->id\_data])?></td>

<td><?=$row->tanggal?></td>

<td class="nw">

<a class="btn btn-xs btn-warning" href="?m=ubah\_transaksi&ID=<?=$row->id\_data?>">Ubah</a>

<a class="btn btn-xs btn-danger" href="aksi.php?act=hapus\_transaksi&ID=<?=$row->id\_data?>" onclick="return confirm('Hapus data?')">Hapus</a>

</td>

</tr>

<?php endforeach;?>

</table>

</div>

</div>

</section>

<!--section class="content-header">

<h1>Data Transaksi</h1><hr>

</section>

<section class="content">

<div class="panel panel-default">

<div class="panel-heading">

<form class="form-inline">

<input type="hidden" name="m" value="transaksi" />

<div class="form-group">

<a class="btn btn-primary" href="?m=tambah\_transaksi"><span class="glyphicon glyphicon-plus"></span> Tambah</a>

</div>

</form>

</div>

<div class="table-responsive1 panel-body">

<table class="table table-bordered table-hover table-striped" id="datatable">

<thead>

<tr>

<th>No</th>

<th>Data</th>

<th>Tanggal</th>

<th>Aksi</th>

</tr>

</thead>

<?php

$rows = $db->get\_results("SELECT \* FROM tb\_transaksi ORDER BY tanggal");

$data = convert\_data($rows, $KATEGORI);

$no=0;

foreach($rows as $row):?>

<tr>

<td><?=++$no?></td>

<td><?=implode(', ', $data[$row->id\_transaksi])?></td>

<td><?=$row->tanggal?></td>

<td class="nw">

<a class="btn btn-xs btn-warning" href="?m=ubah\_transaksi&ID=<?=$row->id\_transaksi?>">Ubah</a>

<a class="btn btn-xs btn-danger" href="aksi.php?act=hapus\_transaksi&ID=<?=$row->id\_transaksi?>" onclick="return confirm('Hapus data?')">Hapus</a>

</td>

</tr>

<?php endforeach;?>

</table>

</div>

</div>

</section-->

1. tambah\_transaksi.php

<section class="content-header">

<h1>Tambah Data Transaksi</h1><hr>

</section>

<section class="content">

<div class="row">

<div class="col-sm-6">

<?php if($\_POST) include 'aksi.php'?>

<form method="post">

<div class="form-group">

<label>Jenis Barang <span class="text-danger">\*</span></label>

<?php foreach($KATEGORI as $key => $val):?>

<div class="checkbox">

<label>

<input type="checkbox" name="nama\_data[<?=$key?>]" value="<?=$key?>" />

<?=$val?>

</label>

</div>

<?php endforeach?>

</div>

<div class="form-group">

<label>Tanggal <span class="text-danger">\*</span></label>

<input class="form-control" type="date" name="tanggal" value="<?=set\_value('tanggal', date('Y-m-d'))?>"/>

</div>

<div class="form-group">

<button class="btn btn-primary"><span class="glyphicon glyphicon-save"></span> Simpan</button>

<a class="btn btn-danger" href="?m=data\_transaksi"><span class="glyphicon glyphicon-arrow-left"></span> Kembali</a>

</div>

</form>

</div>

</div>

</section>

1. ubah\_transaksi.php

<?php

$row = $db->get\_row("SELECT \* FROM tb\_transaksi WHERE id\_data='$\_GET[ID]'");

?>

<section class="content-header">

<h1>Ubah Data Transaksi</h1><hr>

</section>

<section class="content">

<div class="row">

<div class="col-sm-6">

<?php if($\_POST) include 'aksi.php'?>

<form method="post">

<div class="form-group">

<label>Jenis Barang <span class="text-danger">\*</span></label>

<?php

$no = 0;

foreach($KATEGORI as $key => $val):?>

<div class="checkbox">

<label>

<input type="checkbox" name="nama\_data[<?=$key?>]" <?=substr($row->nama\_data, $no, 1)==1 ? 'checked' : ''?> value="<?=$key?>" />

<?=$val?>

</label>

</div>

<?php $no++; endforeach?>

</div>

<div class="form-group">

<label>Tanggal <span class="text-danger">\*</span></label>

<input class="form-control" type="date" name="tanggal" value="<?=set\_value('tanggal', $row->tanggal)?>"/>

</div>

<div class="form-group">

<button class="btn btn-primary"><span class="glyphicon glyphicon-save"></span> Simpan</button>

<a class="btn btn-danger" href="?m=data\_transaksi"><span class="glyphicon glyphicon-arrow-left"></span> Kembali</a>

</div>

</form>

</div>

</div>

</section>

1. apriori.php

<section class="content-header">

<h1>Analisis Apriori</h1><hr>

</section>

<section class="content">

<?php

$tanggal\_awal = $db->get\_var("SELECT min(tanggal) FROM tb\_transaksi");

$tanggal\_akhir = $db->get\_var("SELECT max(tanggal) FROM tb\_transaksi");

$tanggal\_awal = set\_value('tanggal\_awal', $tanggal\_awal);

$tanggal\_akhir = set\_value('tanggal\_akhir', $tanggal\_akhir);

?>

<div class="row" id="myTabContent">

<div class="col-md-6">

<form method="post">

<input type="hidden" name="m" value="apriori" />

<div class="form-group col-md-6">

<label>Tanggal awal <span class="text-danger">\*</span></label>

<input class="form-control" name="tanggal\_awal" type="date" value="<?=$tanggal\_awal?>">

</div>

<div class="form-group col-md-6">

<label>Tanggal akhir <span class="text-danger">\*</span></label>

<input class="form-control" name="tanggal\_akhir" type="date" value="<?=$tanggal\_akhir?>">

</div>

<div class="form-group col-md-12">

<label>Input Minimum support (%) <span class="text-danger">\*</span></label>

<input class="form-control" type="text" name="min\_support" value="<?=set\_value('min\_support', 25)?>" />

</div>

<div class="form-group col-md-12">

<label>Input Minimum confidence (%) <span class="text-danger">\*</span></label>

<input class="form-control" type="text" name="min\_confidence" value="<?=set\_value('min\_confidence', 25)?>" />

</div>

<div class="form-group col-md-6">

<button class="btn btn-primary">Proses</button>

</div>

</form>

</div>

</div>

<?php if($\_POST):?>

<?php include 'apriori\_hasil.php';?>

<?php endif?>

</section>

1. apriori\_hasil.php

<?php

$data = $db->get\_results("SELECT \* FROM tb\_transaksi WHERE tanggal>='$tanggal\_awal' AND tanggal<='$tanggal\_akhir'");

$min\_support = set\_value('min\_support', 25);

$min\_confidence = set\_value('min\_confidence', 25);

$data = convert($data, $KATEGORI);

reset($data);

$arr\_kategory = array\_keys(current($data));

?>

<?php

$itemset = 1;

$stop = false;

$large\_candicate = array();

$com\_category = array();

$support = array();

while(!$stop){

$temp\_large\_candidate = $large\_candicate;

$temp\_com\_category = $com\_category;

$temp\_support = $support;

$com\_category = get\_com\_category($arr\_kategory, $itemset);

$qty = get\_candidate($data, $com\_category);

$support = get\_support($qty, count($data));

$large\_candicate = filter\_candicate($qty, $support, $min\_support / 100);

if($large\_candicate){?>

<div class="panel panel-primary">

<div class="panel-heading">

<h3 class="panel-title">C<?=$itemset?> (Kandidat <?=$itemset?>-itemset)</h3>

</div>

<div class="table-responsive1 panel-body">

<table class="table table-bordered table-hover table-striped">

<thead><tr>

<th>No</th>

<?php for($a = 1; $a <= $itemset; $a++):?>

<th>Item<?=$a?></th>

<?php endfor?>

<th>Qty</th>

<th>Support</th>

</tr></thead>

<?php

$no = 1;

foreach($com\_category as $key => $val):?>

<tr>

<td><?=$no++?></td>

<?php foreach($val as $k):?>

<td><?=$KATEGORI[$k]?></td>

<?php endforeach?>

<td><?=$qty[$key]?></td>

<td><?=round($support[$key] \* 100, 2)?>%</td>

</tr>

<?php endforeach?>

</table>

</div>

</div>

<div class="panel panel-primary">

<div class="panel-heading">

<h3 class="panel-title">L<?=$itemset?> (Large <?=$itemset?>-itemset)</h3>

</div>

<div class="table-responsive1 panel-body">

<table class="table table-bordered table-striped">

<thead><tr>

<th>No</th>

<?php for($a = 1; $a <= $itemset; $a++):?>

<th>Item<?=$a?></th>

<?php endfor?>

<th>Qty</th>

<th>Support</th>

</tr></thead>

<?php

$no = 1;

foreach($large\_candicate as $key => $val):?>

<tr>

<td><?=$no++?></td>

<?php foreach($com\_category[$key] as $k):?>

<td><?=$KATEGORI[$k]?></td>

<?php endforeach?>

<td><?=$large\_candicate[$key]?></td>

<td><?=round($support[$key] \* 100, 2)?>%</td>

</tr>

<?php endforeach?>

</table>

</div>

</div>

<?php

$arr\_kategory = filter\_category($large\_candicate, $com\_category);

$itemset++;

if(count($large\_candicate)<1)

$stop = true;

if($itemset > count($KATEGORI))

$stop = true;

}else{

$com\_category = $temp\_com\_category;

$large\_candicate = $temp\_large\_candidate;

$support = $temp\_support;

$itemset--;

$stop = true;

};

}

if($itemset>1):

$ass\_key = ass\_key($large\_candicate, $com\_category);

$ass\_qty = get\_ass\_qty($ass\_key, $data);

$confidence = get\_confidence($ass\_key, $ass\_qty, $large\_candicate);

//echo '<pre>' . print\_r($la, 1) .'</pre>';

?>

<div class="panel panel-primary" id="div1">

<div class="panel-heading">

<h3 class="panel-title">Aturan Asosiasi</h3>

</div><br>

<div class="form-group col-md-6">

<button class="fa fa-print btn btn-default" onclick="printContent('div1')"> Cetak Hasil</button>

<h5> Berdasarkan data transaksi dari tanggal <?php echo "$tanggal\_awal"; ?> sampai <?php echo "$tanggal\_akhir"; ?> </h5>

</div>

<div class="table-responsive1 panel-body">

<table class="table table-bordered table-hover table-striped">

<thead><tr>

<th>No</th>

<th>Rule</th>

<th>Support</th>

<th colspan="2">Confidence</th>

</tr></thead>

<?php

$no = 1;

foreach($ass\_key as $key => $val):?>

<tr class="<?=$confidence[$key]>=$min\_confidence/100 ? '' : 'default'?>">

<td><?=$no++?></td>

<td>Jika konsumen membeli <strong><?=get\_ass\_name($val['left'], $KATEGORI)?></strong> maka membeli <strong><?=$KATEGORI[$val['right']]?></strong></td>

<td><?=round($support[$val['index']] \* 100, 2)?>%</td>

<td><?=$large\_candicate[$val['index']]?>/<?=$ass\_qty[$key]?></td>

<td><?=round($confidence[$key] \* 100, 2)?>%</td>

</tr>

<?php endforeach?>

<?php echo $large\_candicate[$key],"test";?>

</table>

</div>

</div>

<?php

endif;

?>

1. password.php

<section class="content-header">

<h1>Ubah Password</h1><hr>

</section>

<section class="content">

<div class="row">

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

<?php if($\_POST) include'aksi.php'?>

<form method="post" action="?m=password&act=password\_ubah">

<div class="form-group">

<label>Masukkan Password Lama <span class="text-danger">\*</span></label>

<input class="form-control" type="password" name="pass1"/>

</div>

<div class="form-group">

<label>Masukkan Password Baru <span class="text-danger">\*</span></label>

<input class="form-control" type="password" name="pass2"/>

</div>

<div class="form-group">

<label>Konfirmasi Password Baru <span class="text-danger">\*</span></label>

<input class="form-control" type="password" name="pass3"/>

</div>

<button class="btn btn-primary"><span class="glyphicon glyphicon-save"></span> Simpan</button>

</form>

</div>

</div>

</section>

1. config.php

<?php

$config["server"]='localhost';

$config["username"]='root';

$config["password"]='';

$config["database\_name"]='apriori';

1. aksi.php

<section class="content-header">

<h1>Ubah Password</h1><hr>

</section>

<section class="content">

<div class="row">

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

<?php if($\_POST) include'aksi.php'?>

<form method="post" action="?m=password&act=password\_ubah">

<div class="form-group">

<label>Masukkan Password Lama <span class="text-danger">\*</span></label>

<input class="form-control" type="password" name="pass1"/>

</div>

<div class="form-group">

<label>Masukkan Password Baru <span class="text-danger">\*</span></label>

<input class="form-control" type="password" name="pass2"/>

</div>

<div class="form-group">

<label>Konfirmasi Password Baru <span class="text-danger">\*</span></label>

<input class="form-control" type="password" name="pass3"/>

</div>

<button class="btn btn-primary"><span class="glyphicon glyphicon-save"></span> Simpan</button>

</form>

</div>

</div>

</section>

1. functions.php

<?php

error\_reporting(~E\_NOTICE);

session\_start();

ini\_set('max\_execution\_time', 60 \* 3);

ini\_set('memory\_limit', '128M');

include 'config.php';

include'includes/db.php';

$db = new DB($config['server'], $config['username'], $config['password'], $config['database\_name']);

include'includes/general.php';

include'includes/paging.php';

$PER\_SKS = 45;

$mod = $\_GET['m'];

$act = $\_GET['act'];

$KATEGORI = array();

$rows = $db->get\_results("SELECT \* FROM tb\_barang ORDER BY id\_barang");

foreach($rows as $row){

$KATEGORI[$row->id\_barang] = $row->nama\_barang;

}

function convert($data, $KATEGORI){

$arr = array();

$arr\_category = array();

foreach($data as $row){

if($row->nama\_data \* 1 > 0){

$arr[$row->id\_data] = array();

$no = 0;

foreach($KATEGORI as $key => $val){

$arr[$row->id\_data][$key] = substr($row->nama\_data, $no++, 1);

if($arr[$row->id\_data][$key])

$arr\_category[$key] = $key;

}

}

}

$arr2 = array();

foreach($arr as $key => $val){

foreach($val as $k => $v){

if(in\_array($k, $arr\_category))

$arr2[$key][$k] = $v;

}

}

//echo '<pre>' . print\_r($arr, 1) . '</pre>';

return $arr;

}

function get\_com\_category($base,$n){

$baselen = count($base);

if($baselen == 0){

return;

}

if($n == 1){

$return = array();

foreach($base as $b){

$return[] = array($b);

}

return $return;

}else{

//get one level lower combinations

$oneLevelLower = get\_com\_category($base,$n-1);

//echo '<pre>'.$n.': '.print\_r($oneLevelLower, 1).'</pre>';

//for every one level lower combinations add one element to them that the last element of a combination is preceeded by the element which follows it in base array if there is none, does not add

$newCombs = array();

foreach((array)$oneLevelLower as $oll){

$lastEl = $oll[$n-2];

$found = false;

foreach($base as $key => $b){

if($b == $lastEl){

$found = true;

continue;

//last element found

}

if($found == true){

//add to combinations with last element

if($key < $baselen){

$tmp = $oll;

$newCombination = array\_slice($tmp,0);

$newCombination[]=$b;

$newCombs[] = array\_slice($newCombination,0);

}

}

}

}

}

return $newCombs;

}

function get\_candidate($data, $com\_category){

$arr = array();

foreach($com\_category as $key => $val){

$arr[$key] = get\_match($val, $data);

}

//echo '<pre>'. print\_r($arr, 1). '</pre>';

return $arr;

}

function get\_match($needed, $data){

$matches = 0;

foreach($data as $k => $v){

$counter = 0;

foreach($v as $a => $b){

if($b==1 && in\_array($a, $needed))

$counter++;

}

if($counter >= count($needed))

$matches++;

}

return $matches;

}

function get\_support($candicate, $total){

$arr = array();

foreach($candicate as $key => $val){

$arr[$key] = $val / $total;

}

return $arr;

}

function filter\_candicate($candicate, $support, $min\_support){

$arr = array();

foreach($candicate as $key => $val){

if($support[$key]>=$min\_support)

$arr[$key] = $val;

}

return $arr;

}

function filter\_category($l\_can, $com\_category){

$arr = array();

foreach($l\_can as $key => $val){

foreach($com\_category[$key] as $v){

$arr[$v] = $v;

}

}

//echo '<pre>'. print\_r($arr, 1). '</pre>';

return array\_values($arr);

}

function ass\_key($large\_candicate, $com\_category){

$category = filter\_category($large\_candicate, $com\_category);

$arr = array();

foreach($large\_candicate as $key => $val){

$arr[$key] = $com\_category[$key];

}

$arr2 = array();

$no = 0;

foreach($arr as $key => $val){

for($a = 0; $a < count($val); $a++){

$arr2[$no]['left'] = $val;

$arr2[$no]['right'] = $val[$a];

unset($arr2[$no]['left'][$a]);

$arr2[$no]['index'] = $key;

$no++;

}

}

$arr = $arr2;

return $arr;

}

function get\_ass\_name($keys, $KATEGORI){

$arr = array();

foreach($keys as $key){

$arr[] = $KATEGORI[$key];

}

return implode(', ', $arr);

}

function get\_ass\_qty($ass\_key, $data){

$arr = array();

foreach($ass\_key as $key => $val){

$arr[$key] = get\_match(array($val['right']), $data);

}

return $arr;

}

function get\_confidence($ass\_key, $ass\_qty, $large\_candicate){

$arr = array();

foreach($ass\_key as $key => $val){

$arr[$key] = $large\_candicate[$val['index']] / $ass\_qty[$key];

}

return $arr;

}

function convert\_data($data, $kategori){

$arr = array();

$arr\_kategori = array\_values($kategori);

foreach($data as $row){

$arr[$row->id\_data] = array();

foreach($arr\_kategori as $key => $val){

if(substr($row->nama\_data, $key, 1)==1)

$arr[$row->id\_data][] = $val;

}

}

return $arr;

}

function set\_value($key = null, $default = null){

global $\_POST;

if(isset($\_POST[$key]))

return $\_POST[$key];

if(isset($\_GET[$key]))

return $\_GET[$key];

return $default;

}

1. db.php

<?php

class DB{

var $conn = null;

public $insert\_id = 0;

public function \_\_construct($host, $username, $passwd, $dbname){

$this->conn = mysqli\_connect($host, $username, $passwd, $dbname);

}

public function query($sql){

$query = mysqli\_query($this->conn, $sql) or die('<pre>Error mysqli\_query: ' . mysqli\_error($this->conn) . '<br />' . $sql . '</pre>');

if ( preg\_match("/^(insert|replace)\s+/i",$sql) )

{

$this->insert\_id = @$this->conn->insert\_id;

}

return $query;

}

public function get\_row($sql){

$query = $this->query($sql);

return mysqli\_fetch\_object($query);

}

public function get\_results($sql){

$query = $this->query($sql);

$arr = array();

while($row = mysqli\_fetch\_object($query)){

$arr[] = $row;

}

return $arr;

}

public function get\_var($sql){

$query = $this->query($sql);

$row = mysqli\_fetch\_row($query);

return $row[0];

}

}

1. general.php

<?php

function esc\_field($str){

if (!get\_magic\_quotes\_gpc())

return addslashes($str);

else

return $str;

}

function redirect\_js($url){

echo '<script type="text/javascript">window.location.replace("'.$url.'");</script>';

}

function alert($url){

echo '<script type="text/javascript">alert("'.$url.'");</script>';

}

function print\_msg($msg, $type = 'danger'){

echo('<div class="alert alert-'.$type.' alert-dismissible" role="alert">

<button type="button" class="close" data-dismiss="alert" aria-label="Close"><span aria-hidden="true">&times;</span></button>'.$msg.'</div>');

}

}

function ses\_id(){

return session\_id();

}

1. paging.php

<?php

class Paging

{

function cari\_posisi($limit=1, $page=1)

{

if(empty($page) || $page<1){

$position = 0;

}else{

$position = ($page-1) \* $limit;

}

return $position;

}

function get\_total\_page($jumrec=1, $limit=1)

{

$total\_page = ceil($jumrec/$limit);

return $total\_page;

}

function get\_link($attribut="", $jumrec=1, $limit=1, $page=1)

{

$total\_page = $this->get\_total\_page($jumrec, $limit);

if($page<1){$page=1;}

//create first link

$page\_link.="<li><a href='index.php?".$attribut."1' title='Awal'>&laquo;</a></li>";

//create link paging

for($i=1;$i<=$total\_page;$i++)

{

if($i==$page){

$page\_link.="<li class='active'><a href='index.php?".$attribut."$i' title='Halaman $i'>$i</a></li>";

}else{

$page\_link.="<li><a href='index.php?".$attribut."$i' title='Halaman $i'>$i</a></li>";

}

}

//create last link

$page\_link.="<li><a href='index.php?".$attribut.$total\_page."' title='Akhir' class='paging\_next'>&raquo;</a></li>";

return $page\_link;

}

function show($attribut="", $jumrec=1, $limit=1, $page=1){

$total\_page = $this->get\_total\_page($jumrec, $limit);

if($total\_page<1)

return false;

return "<ul class='pagination'>".$this->get\_link($attribut, $jumrec, $limit, $page)."</ul>";

}

}