

---

# UNIVERSIDAD NACIONAL AUTONOMA DE HONDURAS

---

Facultad de Ingeniería  
Departamento de Ingeniería en Sistemas

## **Documentación del Sistema de reportes MP (Base de Datos)**

**Asignatura:** Ingeniería de Software

**Catedrático:** Ing. Miguel Saucedo

### **Presentado por:**

| <b>Nombre</b>          | <b>Número de Cuenta</b> |
|------------------------|-------------------------|
| Edson Froylan Bonilla  | 20081003488             |
| Erick Alexander Zelaya | 20092500066             |
| Emil Daniel Ordoñez    | 20091001347             |
| Sindy Danely García    | 20091004217             |
| Osly Salinas           | 20081000979             |

**Tegucigalpa M.D.C, 25 de Agosto del 2014**

## Tabla de contenido

|  |    |
|--|----|
| Introducción .....                           | 3  |
| Scripts de procedimientos almacenados.....   | 4  |
| Diccionario de Datos.....                    | 14 |
| Base de Datos: mpsiafireportes.....          | 14 |
| Nombre Tabla: tbl_rol .....                  | 14 |
| Nombre Tabla: tbl_rol_usuario .....          | 14 |
| Nombre Tabla: tbl_usuario .....              | 14 |
| Nombre Tabla: tbl_apchck.....                | 14 |
| Nombre Tabla: tbl_accchk.....                | 15 |
| Diagrama Relacional: "mpsiafireportes" ..... | 15 |
| Base de datos: mpsiafi .....                 | 16 |
| Nombre Tabla: bgadjm .....                   | 16 |
| Nombre Tabla: bgtrfm .....                   | 16 |
| Nombre Tabla: prempg .....                   | 17 |
| Nombre Tabla: HRJobs .....                   | 17 |
| Nombre Tabla: apchck .....                   | 17 |
| Nombre Tabla: bgbudp .....                   | 18 |
| Nombre Tabla: bgbudt.....                    | 18 |
| Nombre Tabla: prmisd .....                   | 18 |
| Nombre Tabla: prmisc.....                    | 19 |
| Nombre Tabla: prdept.....                    | 20 |
| Nombre Tabla: prempy .....                   | 20 |
| Diagrama Relacional: "mpsiafi" .....         | 22 |

## Introducción

A continuación se presenta todo lo referente a la estructura de la base de datos utilizada en el proyecto y también de algunas de las tablas de la base de datos original manejada actualmente en el Ministerio Público las cuales fueron consideradas necesarias para el logro del propósito del proyecto.

De igual manera se presentan los scripts de los procedimientos almacenados utilizados para la obtención de los datos que se deseaban mostrar y almacenar.

Se muestran los diccionarios de datos de las diferentes tablas que fueron manejadas. Todo lo anterior se entrega para facilitar una posible implementación y mantenimiento futuro además para permitir fácil entendimiento de quienes hagan uso técnico del mismo.

# Scripts de procedimientos almacenados

## Procedimientos Almacenados para la administración y control de cuentas de Cheques

```

CREATE PROCEDURE [sp_chk_actualizar]
AS
BEGIN

    SET NOCOUNT ON;

    INSERT INTO mpsiafireportes.dbo.tbl_apchck(cvendno, cpayto, cchktype,
        cbankno, cchkno, ctogl, dcheck, dcreate, lcancel, lhold,
        nchkamt, nfchkamt, nxchgrate, nbchkamt)
        (SELECT mpchk.cvendno, mpchk.cpayto, mpchk.cchktype, mpchk.cbankno,
            mpchk.cchkno, mpchk.ctogl, mpchk.dcheck, mpchk.dcreate,
            mpchk.lcancel, mpchk.lhold, mpchk.nchkamt, mpchk.nfchkamt,
            mpchk.nxchgrate, mpchk.nbchkamt
            FROM mpsiafi.dbo.apchck AS mpchk
            WHERE mpchk.cchkno NOT IN
                (SELECT mprchk.cchkno
                 FROM mpsiafireportes.dbo.tbl_apchck AS mprchk))

    DECLARE cheques CURSOR FOR
        SELECT tchk.cchkno
            FROM mpsiafireportes.dbo.tbl_apchck AS tchk
            WHERE entregado=0;

    -- Apertura del cursor

    OPEN cheques

    -- Lectura de la primera fila del cursor
    DECLARE @num_chk VARCHAR(10);
    DECLARE @nuevo_lcancel SMALLINT;
    DECLARE @nuevo_lhold SMALLINT;

    FETCH cheques INTO @num_chk;

    WHILE (@@FETCH_STATUS = 0 ) BEGIN
        --SE ASIGNAN LOS VALORES ACTUALIZADOS DE lhold y lcancel
        SELECT @nuevo_lcancel=mpchk.lcancel,@nuevo_lhold=mpchk.lhold
            FROM mpsiafi.dbo.apchck AS mpchk
            WHERE cchkno = @num_chk;

        --SE ACTUALIZA LA TABLA tbl_apchck con los valores mas actuales
        UPDATE mpsiafireportes.dbo.tbl_apchck
            SET     lcancel = @nuevo_lcancel,
                   lhold = @nuevo_lhold
            WHERE   mpsiafireportes.dbo.tbl_apchck.cchkno = @num_chk;

        FETCH cheques INTO @num_chk;
    END

    CLOSE cheques;
    DEALLOCATE cheques;

```

```
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO

=====
CREATE PROCEDURE [sp_chk_entregar]
    @num VARCHAR(10),@entr VARCHAR(1)=1
AS
BEGIN

    SET NOCOUNT ON;

    UPDATE mpsiafireportes.dbo.tbl_apchck
        SET centregado = @entr
        WHERE cchkno = @num

END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER OFF
GO

=====
CREATE PROCEDURE [sp_chk_mostrarMonto]
AS
BEGIN

    SET NOCOUNT ON;

    SELECT TOP 1 mpracchk.namt AS MONTO,mpracchk.dfechamod AS FECHA,
        mpracchk.cdasc AS 'DESC'
    FROM mpsiafireportes.dbo.tbl_accchk AS mpracchk
    ORDER BY FECHA DESC

END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE PROCEDURE [sp_chk_montoCuenta]
    @monto NUMERIC(16,2),@desc VARCHAR(200)
AS
BEGIN

    SET NOCOUNT ON;

    INSERT INTO tbl_accchk (namt,dfechamod,cdasc)
        VALUES (@monto,GETDATE(),@desc)

END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
```

```

=====
CREATE PROCEDURE [sp_chk_calculaDisponible]
AS
BEGIN

    SET NOCOUNT ON;

    EXEC sp_chk_actualizar;

    SELECT (SELECT TOP 1 namt AS MONTO
            FROM mpsiafireportes.dbo.tbl_accchk AS accchk
            ORDER BY accchk.dfechamod DESC) - ISNULL(SUM(mprchk.nchkamt),0)
AS DISPONIBLE
    FROM mpsiafireportes.dbo.tbl_apchck AS mprchk
    WHERE mprchk.centregado <> '0' AND mprchk.lcancel='0'

END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO

=====
CREATE PROCEDURE [sp_chk_mostrar]
    @chknum VARCHAR(10) = '', @proveedor VARCHAR(40) = '', @banco
VARCHAR(10) = '', @conciliado SMALLINT = 0,
    @retenido SMALLINT = 0, @entregado VARCHAR(1) = ''
AS
BEGIN

    SET NOCOUNT ON;

    EXEC sp_chk_actualizar;

    SELECT mprchk.cchkno AS '# CHEQUE' ,mprchk.cvendno AS 'COD. PROV.',
mprchk.cpayto AS 'DESC',
    mprchk.cbankno AS 'CTA. BANC.', mprchk.dcheck AS 'F.
CHEQUE',mprchk.dcreate AS 'F. CREACION',
    (CASE mprchk.lcancel WHEN 0 THEN 'NO' ELSE 'SI' END) AS 'CONCILIADO',
    (CASE mprchk.lhold WHEN 0 THEN 'NO' ELSE 'SI' END) AS 'RETENIDO',
mprchk.nchkamt AS CANTIDAD,
    (CASE mprchk.centregado WHEN 0 THEN 'NO' ELSE 'SI' END) AS 'ENTREGADO'
FROM mpsiafireportes.dbo.tbl_apchck AS mprchk
WHERE mprchk.cchkno LIKE '%' + @chknum + '%'
    AND mprchk.cpayto LIKE '%' + @proveedor + '%'
    AND mprchk.cbankno LIKE '%' + @banco + '%'
    AND mprchk.lcancel = @conciliado
    AND mprchk.lhold = @retenido
    AND mprchk.centregado LIKE '%' + @entregado + '%'

END
GO
ALTER TABLE [tbl_apchck] ADD DEFAULT ('0') FOR [centregado]
GO
ALTER TABLE [tbl_rol_usuario] WITH CHECK ADD CONSTRAINT
[tbl_rol_usuario_tbl_rol_FK] FOREIGN KEY([id_rol])
REFERENCES [tbl_rol] ([id_rol])
GO
ALTER TABLE [tbl_rol_usuario] CHECK CONSTRAINT [tbl_rol_usuario_tbl_rol_FK]

```

```

GO
ALTER TABLE [tbl_rol_usuario] WITH NOCHECK ADD CONSTRAINT
[tbl_rol_usuario_tbl_usuarios_FK] FOREIGN KEY([id_usuario])
REFERENCES [tbl_usuarios] ([id_usuario])
GO
ALTER TABLE [tbl_rol_usuario] CHECK CONSTRAINT [tbl_rol_usuario_tbl_usuarios_FK]
GO

```

## Procedimiento Almacenado para generación de “Reporte de Empleados con cuenta presupuestaria individual”

```

CREATE PROCEDURE [dbo].[sp_reporte_empl_cuentas_presupuestarias]
    @cargo VARCHAR(40)='', @depto VARCHAR(30)='', @codpres VARCHAR(30)='',
    @est VARCHAR(2)='', @fcontrIn DATETIME=NULL, @fcontrFn DATETIME=NULL,
    @facrdIn DATETIME=NULL, @facrdFn DATETIME=NULL
AS
BEGIN
    SET NOCOUNT ON;
    IF @facrdIn='' BEGIN
        SET @facrdIn = '19000101'
    END
    IF @facrdFn='' BEGIN
        SET @facrdFn = '29000101'
    END
    IF @fcontrIn='' BEGIN
        SET @fcontrIn = '19000101'
    END
    IF @fcontrFn='' BEGIN
        SET @fcontrFn = '29000101'
    END

    SELECT empy.cempno AS CODIGO, empy.cfedid AS ID,
        empy.cfname AS NOMBRES,
        empy.clname AS APELLIDOS, empy.csex AS SEXO,
        empy.dbirth AS NACIMIENTO, empy.cdeptno AS 'COD. DEPTO',
        dept.cdeptname AS 'DEPTO. NOMBRE', jobs.cDesc AS CARGO,
        empy.nmonthpay AS SALARIO, empy.dcntrct AS 'F. CONTRATO',
        empy.dhire AS 'F. ACUERDO',
        empy.ctaxstate, empy.cpaytype AS 'T. PLANILLA',
        empy.cstate AS ESTADO, empg.cwageacc AS 'COD. PRES'
    FROM mpsiafi.dbo.prempy AS empy, mpsiafi.dbo.HRJobs AS jobs,
        mpsiafi.dbo.prdept AS dept, mpsiafi.dbo.prempg AS empg
    WHERE empy.cdeptno = dept.cdeptno
        AND empy.cjobtitle = jobs.cJobTitlNO
        AND empy.cempno = empg.cempno
        AND dhire BETWEEN ISNULL(@facrdIn, '19000101')
            AND ISNULL(@facrdFn, '29001231')
        AND dcntrct BETWEEN ISNULL(@fcontrIn, '19000101')
            AND ISNULL(@fcontrFn, '29001231')
        AND jobs.cDesc LIKE '%'+ ISNULL(@cargo, '') + '%'
        AND dept.cdeptname LIKE '%'+ ISNULL(@depto, '') + '%'
        AND empg.cwageacc LIKE '%'+ ISNULL(@codpres, '') + '%'
        AND empy.cstate LIKE '%'+ ISNULL(@est, '') + '%'

END
GO

```

## Procedimiento Almacenado para generación de “Reporte de Ingreso de empleados”

```
CREATE PROCEDURE [dbo].[sp_reporte_ingreso_empleados]
AS
BEGIN
SET NOCOUNT ON;

    SELECT E.cempno AS "CODIGO", E.cfedid AS "IDENTIDAD", E.cfname AS "NOMBRES",
    E.clname AS "APELLIDOS", J.cDesc AS "CARGO", E.cdeptno AS "COD. DEPTO.",
    D.cdeptname AS "DEPTO.", M.cref AS "REFERENCIA", M.cbankno AS "BANCO",
    M.cchkno AS "CHEQUE", M.cpayno AS "PLANILLA", M.cpaycode AS "COD. INGR.",
    (M.ngty*M.nrate) AS "VALOR INGR."
    FROM mpsiafi.dbo.prempy AS E, mpsiafi.dbo.prmisc AS M, mpsiafi.dbo.prdept AS
    D, mpsiafi.dbo.HrJobs AS J
    WHERE E.cdeptno = D.cdeptno AND E.cjobtitle = J.cJobTitlNO AND E.cempno =
    M.cempno
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
```

## Procedimiento Almacenado para generación de “Reporte de deducciones de empleado”

```
CREATE PROCEDURE [dbo].[sp_reporte_deducciones_empleados]
AS
BEGIN

    SET NOCOUNT ON;

    SELECT empl.cempno AS '# EMPLEADO', empl.cfedid AS 'IDENTIDAD',
    empl.cfname AS NOMBRES, empl.clname AS APELLIDOS,
    jobs.cDesc AS CARGO, empl.cdeptno AS 'COD. DEPTO.',
    dept.cdeptname AS 'DEPTO.', misd.cpayno AS PLANILLA,
    misd.cdedno AS 'COD. DED.', misd.cdsc AS DESCRIPCION,
    misd.ndedamt AS 'VALOR DED.'
    FROM mpsiafi.dbo.prempy AS empl
    INNER JOIN mpsiafi.dbo.HRJobs AS jobs
    ON empl.cjobtitle = jobs.cJobTitlNO
    INNER JOIN mpsiafi.dbo.prdept AS dept
    ON empl.cdeptno = dept.cdeptno
    INNER JOIN mpsiafi.dbo.prmisd AS misd
    ON empl.cempno = misd.cempno

END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
```



## Procedimiento Almacenado para generación de “Reporte de presupuesto por programa”

```
CREATE PROCEDURE [dbo].[sp_reporte_presupuesto_programa]
AS
BEGIN

    SET NOCOUNT ON;

    SELECT SUBSTRING(budget.cbudno,5,3) AS PROGRAMA ,budget.cbudid AS
PRESUPUESTO,
        (SUM(budget.namtmod) - SUM(budget.namt)) AS TRANSFERENCIA,
        SUM(budget.namtmod) AS MODIFICADO, SUM(budget.namtused) AS
UTILIZADO,
        SUM(budget.namtmod - budget.namtused) AS DISPONIBLE,
        (SUM(budget.namtused) / SUM(budget.namtmod)) AS '% UTILIZADO',
        ((SUM(budget.namtmod) - SUM(budget.namtused)) /
SUM(budget.namtmod)) AS '% DISPONIBLE'
        FROM mpsiafi.dbo.bgbudt AS budget
        WHERE SUBSTRING(budget.cbudid,5,4) = YEAR(GETDATE())
        GROUP BY SUBSTRING(budget.cbudno,5,3), budget.cbudid

END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
```

## Procedimiento Almacenado para generación de “Reporte de presupuesto por grupo”

```
CREATE PROCEDURE [dbo].[sp_reporte_presupuesto_grupo]
AS
BEGIN

    SET NOCOUNT ON;

    SELECT SUBSTRING(budget.cbudno,17,1) AS GRUPO ,budget.cbudid AS PRESUPUESTO,
        (SUM(budget.namtmod) - SUM(budget.namt)) AS TRANSFERENCIA,
        SUM(budget.namtmod) AS MODIFICADO, SUM(budget.namtused) AS
UTILIZADO,
        SUM(budget.namtmod - budget.namtused) AS DISPONIBLE,
        (SUM(budget.namtused) / SUM(budget.namtmod)) AS '% UTILIZADO',
        ((SUM(budget.namtmod) - SUM(budget.namtused)) /
SUM(budget.namtmod)) AS '% DISPONIBLE'
        FROM mpsiafi.dbo.bgbudt AS budget
        WHERE SUBSTRING(budget.cbudid,5,4) = YEAR(GETDATE())
        GROUP BY SUBSTRING(budget.cbudno,17,1), budget.cbudid

END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
```

## Procedimiento Almacenado para generación de “Reporte de presupuesto por subgrupo”

```
CREATE PROCEDURE [dbo].[sp_reporte_presupuesto_subgrupo]
AS
BEGIN
SELECT SUBSTRING(budget.cbudno,17,2) AS "SUB GRUPO",
      (budget.cbudid) AS "PRESUPUESTO",
      (SUM(budget.namtmod) - SUM(budget.namtused)) AS "TRANSFERENCIA",
      SUM(budget.namtmod) AS "MODIFICADO",
      SUM(budget.namtused) AS "UTILIZADO",
      (SUM(budget.namtmod) - SUM(budget.namtused)) AS "DISPONIBLE",
      (SUM(budget.namtused) / SUM(budget.namtmod)) AS "% UTILIZADO",
      ((SUM(budget.namtmod) - SUM(budget.namtused)) / SUM(budget.namtmod)) AS "%
DISPONIBLE"
FROM mpsiafi.dbo.bgbudt as budget
WHERE SUBSTRING(budget.cbudid,5,4) = YEAR(GETDATE())
GROUP BY SUBSTRING(budget.cbudno,17,2), budget.cbudid;
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
```

## Procedimiento Almacenado para generación de “Reporte de presupuesto original”

```
CREATE PROCEDURE [dbo].[sp_reporte_presupuesto_compara]
AS
BEGIN
      SET NOCOUNT ON;

      SELECT budget.cbudno AS CUENTA ,budget.cbudid AS PRESUPUESTO,
            (budget.namt) AS ORIGINAL,
            (budget.namtmod) AS MODIFICADO, (budget.namtused) AS UTILIZADO,
            (budget.namtmod - budget.namtused) AS DISPONIBLE,
            ((budget.namtused) / (budget.namtmod)) AS '% UTILIZADO',
            ((budget.namtmod) - (budget.namtused)) / (budget.namtmod)) AS '%
DISPONIBLE'
      FROM mpsiafi.dbo.bgbudt AS budget
      WHERE SUBSTRING(budget.cbudid,5,4) = YEAR(GETDATE())
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER OFF
GO
```

## Procedimiento Almacenado para generación de “Reporte de transacciones”

```
CREATE PROCEDURE [dbo].[sp_reporte_presupuesto_transacciones]
AS
BEGIN

    SET NOCOUNT ON;

    ((SELECT 'TRANS.' AS TIPO, CONVERT(VARCHAR, trn.cfbudno) AS DESDE,
        trn.ctbudno AS HASTA, trn.ntrfam AS 'CANT.',
        trn.tmodrec AS FECHA
        FROM mpsiafi.dbo.bgtrfm AS trn
        WHERE YEAR(trn.tmodrec) = YEAR(GETDATE()))
    UNION
    (SELECT 'AJUST.' AS TIPO, 'N/A' AS DESDE,
        aju.cbudno AS HASTA, aju.nadjamt AS 'CANT.',
        aju.tmodrec AS FECHA
        FROM mpsiafi.dbo.bgadjm AS aju
        WHERE YEAR(aju.tmodrec) = YEAR(GETDATE()))
    ORDER BY FECHA
END
```

## Procedimiento Almacenado para obtención de roles de usuario

```
CREATE PROCEDURE [dbo].[sp_getroles]
AS
BEGIN
    SET NOCOUNT ON;

    SELECT r.id_rol AS ROL, r.descripcion AS 'DESC'
        FROM tbl_rol AS r
END
GO
```

## Procedimientos Almacenados para administración de usuarios

```
CREATE PROCEDURE [dbo].[sp_nuevousuario]
    @idusuario VARCHAR(45), @correo VARCHAR(100),
    @prnombre VARCHAR(50), @sgnombre VARCHAR(50)=NULL,
    @prapellido VARCHAR(50), @sgapellido VARCHAR(50)=NULL,
    @clave VARCHAR(50)=NULL, @rol TINYINT=3
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;
    DECLARE @error INT;

    BEGIN TRANSACTION
        INSERT INTO tbl_usuarios (id_usuario, email, prnombre,
            sgnombre, prapellido, sgapellido, clave, fecha_creacion)
            VALUES (@idusuario, @correo, @prnombre,
                @sgnombre, @prapellido, @sgapellido,
                PWDENCRYPT(ISNULL(@clave, '123456')), GETDATE())
    END TRANSACTION
```

```

        INSERT INTO rol_usuarios (id_usuario,id_rol)
            VALUES (@idusuario,@rol)

SET @error = @@ERROR;
IF @error <> 0 BEGIN
    COMMIT
    RETURN 0;
END
ELSE BEGIN
    ROLLBACK
    RETURN @error;
END

END
GO
=====
CREATE PROCEDURE [dbo].[sp_eliminausuario]
    @correo VARCHAR(100)
AS
BEGIN

    SET NOCOUNT ON;

    DELETE tbl_usuarios
        WHERE email = @correo

END
GO

CREATE PROCEDURE [dbo].[sp_getusuarios]
    @id VARCHAR(45)='',@correo VARCHAR(100)=''
AS
BEGIN
    SET NOCOUNT ON;
    SELECT u.email AS CORREO,u.id_usuario AS ID
        FROM tbl_usuarios AS u
        WHERE u.email LIKE '%' + @correo + '%'
            AND u.id_usuario LIKE '%' + @id + '%'

END
GO
=====
CREATE PROCEDURE [dbo].[sp_login]
    @correo VARCHAR(100),@clave VARCHAR(50)
AS
BEGIN

    SET NOCOUNT ON;

    SELECT TOP 1 (usr.pnombre + ' ' + usr.papellido + ' - ' + rol.descripcion)
AS NOMBRE, rol.id_rol AS ROL
        FROM mpsiafireportes.dbo.tbl_usuarios AS usr
            INNER JOIN mpsiafireportes.dbo.tbl_rol_usuario AS rolusr
                ON usr.id_usuario = rolusr.id_usuario
            INNER JOIN mpsiafireportes.dbo.tbl_rol AS rol
                ON rol.id_rol = rolusr.id_rol
        WHERE usr.email = @correo AND PWDCOMPARE(@clave,usr.clave)=1

```

```
UPDATE mpsiafireportes.dbo.tbl_usuarios
    SET fecha_ultimo_ingreso = GETDATE()
    WHERE email = @correo
END
GO

=====
CREATE PROCEDURE [dbo].[sp_reiniciaclave]
    @correo VARCHAR(100), @clave VARCHAR(50) = '123456'
AS
BEGIN

    SET NOCOUNT ON;

    UPDATE tbl_usuarios
        SET clave = PWDENCRYPT(@clave)
        WHERE email=@correo;
END
GO
```

# Diccionario de Datos

## Base de Datos: mpsiafireportes

### Nombre Tabla: tbl\_rol

| No | Nombre Columna | PK | FK | M | Tipo de Dato |
|----|----------------|----|----|---|--------------|
| 1  | id_rol         | P  |    | Y | SMALLINT     |
| 2  | descripcion    |    |    |   | VARCHAR (45) |

### Nombre Tabla: tbl\_rol\_usuario

| No | Nombre Columna | PK | FK | M | Tipo de Dato |
|----|----------------|----|----|---|--------------|
| 1  | id_usuario     | P  | F  | Y | VARCHAR (45) |
| 2  | id_rol         | P  | F  | Y | SMALLINT     |

### Nombre Tabla: tbl\_usuario

| No | Nombre Columna       | PK | FK | M | Tipo de Dato  |
|----|----------------------|----|----|---|---------------|
| 1  | id_usuario           | P  |    | Y | VARCHAR (45)  |
| 2  | prnombre             |    |    | Y | VARCHAR (50)  |
| 3  | sgnombre             |    |    |   | VARCHAR (50)  |
| 4  | prapellido           |    |    | Y | VARCHAR (50)  |
| 5  | sgapellido           |    |    |   | VARCHAR (50)  |
| 6  | clave                |    |    | Y | VARBINARY     |
| 7  | fecha_creacion       |    |    |   | Datetime      |
| 8  | fecha_ultimo_ingreso |    |    |   | Datetime      |
| 9  | email                |    |    |   | VARCHAR (100) |
| 10 | id_departamento      |    |    | Y | Integer       |

### Nombre Tabla: tbl\_apchck

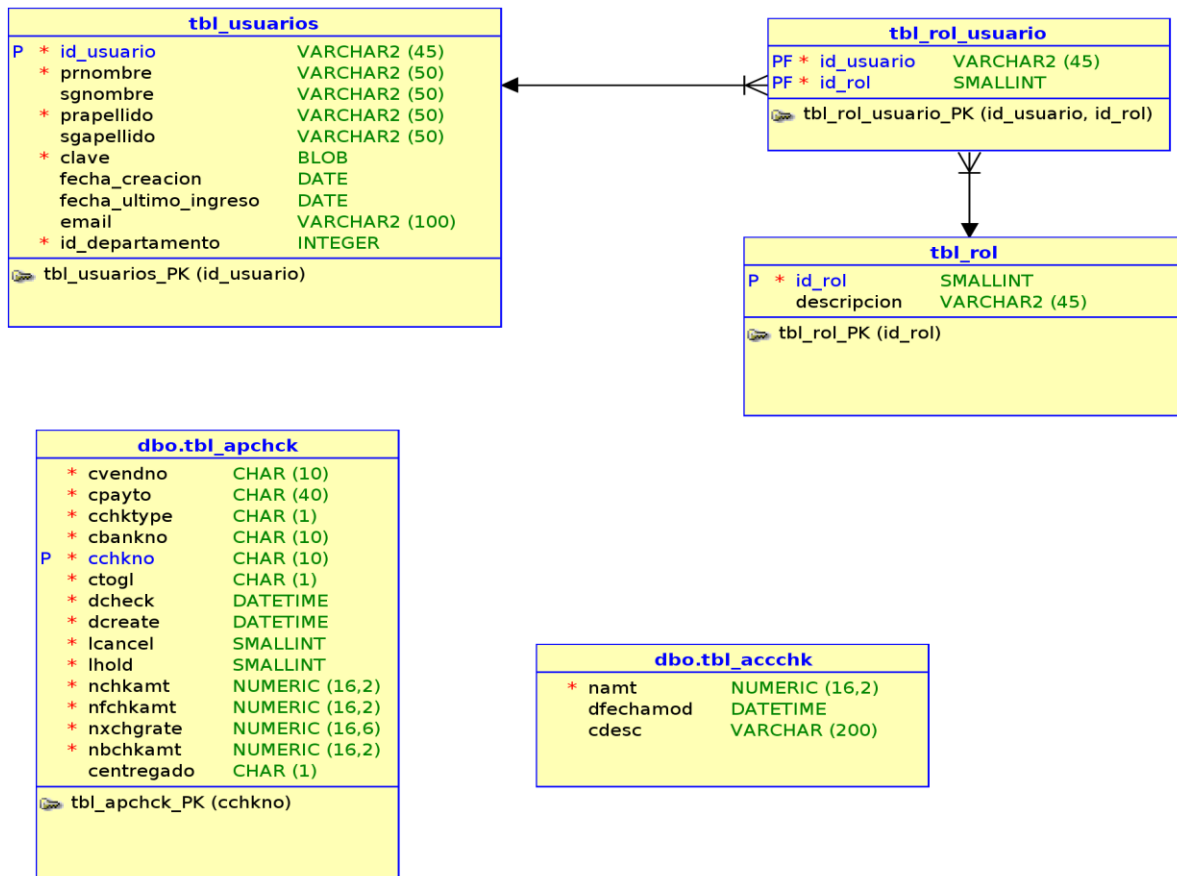
| No | Nombre Columna | PK | M | Tipo de Dato |
|----|----------------|----|---|--------------|
| 1  | cvendno        |    | Y | CHAR(10)     |
| 2  | cpayto         |    | Y | CHAR(40)     |
| 3  | cchktype       |    | Y | CHAR(1)      |
| 4  | cbankno        |    | Y | CHAR(10)     |
| 5  | cchkno         | P  | Y | CHAR(10)     |

| No | Nombre Columna | PK | M | Tipo de Dato  |
|----|----------------|----|---|---------------|
| 6  | ctogl          |    | Y | CHAR(1)       |
| 7  | dcheck         |    | Y | Datetime      |
| 8  | dcreate        |    | Y | Datetime      |
| 9  | lcancel        |    | Y | SMALLINT      |
| 10 | lhold          |    | Y | SMALLINT      |
| 11 | nchkamt        |    | Y | NUMERIC(16,2) |
| 12 | nfchkamt       |    | Y | NUMERIC(16,2) |
| 13 | nxchgrate      |    | Y | NUMERIC(16,6) |
| 14 | nbchkamt       |    | Y | NUMERIC(16,2) |
| 15 | centregado     |    | Y | CHAR(1)       |

### Nombre Tabla: tbl\_accchk

| No | Nombre Columna | M | Tipo de Dato  |
|----|----------------|---|---------------|
| 1  | namt           | Y | NUMERIC(16,2) |
| 2  | dfechamod      | Y | DATETIME      |
| 3  | cdesc          | Y | VARCHAR(200)  |

### Diagrama Relacional: “mpsiafireportes”



## Base de datos: mpsiafi

### Nombre Tabla: bgadjm

| No | Nombre Columna | M | Tipo de Dato |
|----|----------------|---|--------------|
| 1  | cadjno         | Y | CHAR         |
| 2  | cbudid         | Y | CHAR         |
| 3  | cbudno         | Y | CHAR         |
| 4  | cappcode       | Y | CHAR         |
| 5  | cdesc          | Y | CHAR         |
| 6  | dtrs           |   | Datetime     |
| 7  | cuser          | Y | CHAR         |
| 8  | nadjamt        | Y | NUMERIC      |
| 9  | nadjqty        | Y | NUMERIC      |
| 10 | mnotepad       | Y | TEXT         |
| 11 | tmodrec        | Y | Datetime     |
| 12 | lvoid          | Y | SMALLINT     |
| 13 | dvoid          |   | Datetime     |

### Nombre Tabla: bgtrfm

| No | Nombre Columna | M | Tipo de Dato |
|----|----------------|---|--------------|
| 1  | ctrfno         |   | CHAR         |
| 2  | cbudid         |   | CHAR         |
| 3  | cfbudno        |   | CHAR         |
| 4  | ctbudno        |   | CHAR         |
| 5  | cappcode       |   | CHAR         |
| 6  | cdesc          |   | CHAR         |
| 7  | dtrs           |   | Datetime     |
| 8  | cuser          |   | CHAR         |
| 9  | ntrfamt        |   | NUMERIC      |
| 10 | ntrfqty        |   | NUMERIC      |
| 11 | mnotepad       |   | TEXT         |
| 12 | tmodrec        |   | Datetime     |
| 13 | lvoid          |   | SMALLINT     |
| 14 | dvoid          |   | Datetime     |



**Nombre Tabla: prempg**

| No | Nombre Columna | M | Tipo de Dato |
|----|----------------|---|--------------|
| 1  | cuid           | Y | CHAR         |
| 2  | cempno         | Y | CHAR         |
| 3  | cwageacc       | Y | CHAR         |
| 4  | ctaxacc        | Y | CHAR         |
| 5  | ndistpct       | Y | NUMERIC      |
| 6  | cfwtacc        | Y | CHAR         |
| 7  | cficaacc       | Y | CHAR         |
| 8  | cmediacc       | Y | CHAR         |
| 9  | cfutaacc       | Y | CHAR         |
| 10 | csutaacc       | Y | CHAR         |
| 11 | cficaeracc     | Y | CHAR         |
| 12 | cmedieracc     | Y | CHAR         |
| 13 | cfutaeracc     | Y | CHAR         |
| 14 | csutaeracc     | Y | CHAR         |

**Nombre Tabla: HRJobs**

| No | Nombre Columna | M | Tipo de Dato |
|----|----------------|---|--------------|
| 1  | cJobTitlNO     | Y | VARCHAR      |
| 2  | cDesc          | Y | VARCHAR      |
| 3  | nSalary        | Y | DECIMAL      |
| 4  | nPorPlus       | Y | DECIMAL      |
| 5  | mnnotepad      |   | VARCHAR      |
| 6  | tmodrec        | Y | Datetime     |

**Nombre Tabla: apchck**

| No | Nombre Columna | M | Tipo de Dato |
|----|----------------|---|--------------|
| 1  | cvendno        | Y | CHAR         |
| 2  | cpayto         | Y | CHAR         |
| 3  | cchktype       | Y | CHAR         |
| 4  | cbankno        | Y | CHAR         |
| 5  | cchkno         | Y | CHAR         |
| 6  | ctogl          | Y | CHAR         |
| 7  | dcheck         | Y | Datetime     |
| 8  | dcreate        | Y | Datetime     |
| 9  | lcancel        | Y | SMALLINT     |
| 10 | lhold          | Y | SMALLINT     |
| 11 | nchkamt        | Y | NUMERIC      |
| 12 | nfchkamt       | Y | NUMERIC      |
| 13 | nxchgrate      | Y | NUMERIC      |
| 14 | nbchkamt       | Y | NUMERIC      |

**Nombre Tabla: bgbudp**

| No | Nombre Columna | M | Tipo de Dato |
|----|----------------|---|--------------|
| 1  | cuid           | Y | CHAR         |
| 2  | cbudid         | Y | CHAR         |
| 3  | cbudno         | Y | CHAR         |
| 4  | cyear          | Y | CHAR         |
| 5  | cpdno          | Y | CHAR         |
| 6  | namt           | Y | NUMERIC      |
| 7  | namtused       | Y | NUMERIC      |
| 8  | nqty           | Y | NUMERIC      |
| 9  | nqtyused       | Y | NUMERIC      |
| 10 | tmodrec        | Y | Datetime     |
| 11 | namtaccr       | Y | NUMERIC      |
| 12 | nqtyaccr       | Y | NUMERIC      |
| 13 | namtmod        | Y | NUMERIC      |
| 14 | nqtypmod       | Y | NUMERIC      |

**Nombre Tabla: bgbudt**

| No | Nombre Columna | M | Tipo de Dato |
|----|----------------|---|--------------|
| 1  | cuid           | Y | CHAR         |
| 2  | cbudid         | Y | CHAR         |
| 3  | cbudno         | Y | CHAR         |
| 4  | cdesc          | Y | CHAR         |
| 5  | cstmacct       | Y | CHAR         |
| 6  | crsvacct       | Y | CHAR         |
| 7  | cclsid         | Y | CHAR         |
| 8  | ctypid         | Y | CHAR         |
| 9  | cdeptno        | Y | CHAR         |
| 10 | namt           | Y | NUMERIC      |
| 11 | namtused       | Y | NUMERIC      |
| 12 | nqty           | Y | NUMERIC      |
| 13 | nqtyused       | Y | NUMERIC      |
| 14 | tmodrec        | Y | Datetime     |
| 15 | namtaccr       | Y | NUMERIC      |
| 16 | nqtyaccr       | Y | NUMERIC      |
| 17 | namtmod        | Y | NUMERIC      |
| 18 | nqtypmod       | Y | NUMERIC      |

**Nombre Tabla: prmsid**

| No | Nombre Columna | M | Tipo de Dato |
|----|----------------|---|--------------|
| 1  | cuid           | Y | CHAR         |
| 2  | cempno         | Y | CHAR         |
| 3  | cdedno         | Y | CHAR         |

| No | Nombre Columna | M | Tipo de Dato |
|----|----------------|---|--------------|
| 4  | cdedcode       | Y | CHAR         |
| 5  | cpayno         | Y | CHAR         |
| 6  | ndedamt        | Y | NUMERIC      |
| 7  | tmodrec        | Y | Datetime     |
| 8  | lsystem        | Y | SMALLINT     |
| 9  | cdesc          | Y | CHAR         |
| 10 | ctrsno         | Y | CHAR         |

## Nombre Tabla: pmisc

| No | Nombre Columna | M | Tipo de Dato |
|----|----------------|---|--------------|
| 1  | cuid           | Y | CHAR         |
| 2  | cempno         |   | CHAR         |
| 3  | clname         |   | CHAR         |
| 4  | cfname         |   | CHAR         |
| 5  | ctaxstate      |   | CHAR         |
| 6  | cdeptno        |   | CHAR         |
| 7  | cpaytype       |   | CHAR         |
| 8  | cref           |   | CHAR         |
| 9  | ctrsno         |   | CHAR         |
| 10 | cbankno        |   | CHAR         |
| 11 | cchkno         |   | CHAR         |
| 12 | dtrs           |   | Datetime     |
| 13 | dcheck         |   | Datetime     |
| 14 | ltaxable       |   | SMALLINT     |
| 15 | nothtax        |   | NUMERIC      |
| 16 | nothntax       |   | NUMERIC      |
| 17 | csegid1        |   | CHAR         |
| 18 | csegid2        |   | CHAR         |
| 19 | csegid3        |   | CHAR         |
| 20 | csegid4        |   | CHAR         |
| 21 | csegid5        |   | CHAR         |
| 22 | csegmid        |   | CHAR         |
| 23 | ccycle         |   | CHAR         |
| 24 | cpayno         |   | CHAR         |
| 25 | cpaycode       |   | CHAR         |
| 26 | nqty           |   | NUMERIC      |

| No | Nombre Columna | M | Tipo de Dato |
|----|----------------|---|--------------|
| 27 | nrrate         |   | NUMERIC      |
| 28 | lssystem       |   | SMALLINT     |
| 29 | nothertax      |   | NUMERIC      |
| 30 | nBaseGrTax     |   | NUMERIC      |
| 31 | cdocno         |   | CHAR         |
| 32 | cdoctyp        |   | CHAR         |

### Nombre Tabla: prdept

| No | Nombre Columna | M | Tipo de Dato |
|----|----------------|---|--------------|
| 1  | cdeptno        | Y | CHAR         |
| 2  | cdeptname      | Y | CHAR         |
| 3  | cwageacc       | Y | CHAR         |
| 4  | ctaxacc        | Y | CHAR         |
| 5  | cpaytype       | Y | CHAR         |
| 6  | cpayperiod     | Y | CHAR         |
| 7  | lallowot       |   | SMALLINT     |
| 8  | lepayment      |   | SMALLINT     |
| 9  | lusetips       |   | SMALLINT     |
| 10 | nrhr           | Y | NUMERIC      |
| 11 | cficaeracc     | Y | CHAR         |
| 12 | cmedieracc     | Y | CHAR         |
| 13 | cfutaeracc     | Y | CHAR         |
| 14 | csutaeracc     | Y | CHAR         |
| 15 | cficaacc       | Y | CHAR         |
| 16 | cmediacc       | Y | CHAR         |
| 17 | cfutaacc       | Y | CHAR         |
| 18 | csutaacc       | Y | CHAR         |
| 19 | cdeptglseg     | Y | CHAR         |

### Nombre Tabla: prempy

| No | Nombre Columna | M | Tipo de Datos |
|----|----------------|---|---------------|
| 1  | compno         | Y | CHAR          |
| 2  | cfname         | Y | CHAR          |
| 3  | clname         | Y | CHAR          |
| 4  | cinitial       | Y | CHAR          |
| 5  | cssn           |   | CHAR          |
| 6  | cdeptno        | Y | CHAR          |
| 7  | cstatus        | Y | CHAR          |
| 8  | cfedid         |   | CHAR          |
| 9  | caddr1         | Y | CHAR          |

| No | Nombre Columna | M | Tipo de Datos |
|----|----------------|---|---------------|
| 10 | caddr2         | Y | CHAR          |
| 11 | ccity          | Y | CHAR          |
| 12 | cstate         | Y | CHAR          |
| 13 | czip           | Y | CHAR          |
| 14 | cphone         | Y | CHAR          |
| 15 | cjobtitle      | Y | CHAR          |
| 16 | csex           | Y | CHAR          |
| 17 | ccitizen       | Y | CHAR          |
| 18 | ceeoid         | Y | CHAR          |
| 19 | cethniccd      | Y | CHAR          |
| 20 | cpaytype       | Y | CHAR          |
| 21 | cpayperiod     | Y | CHAR          |
| 22 | cmarry         | Y | CHAR          |
| 23 | cmttype        | Y | CHAR          |
| 24 | ceicstatus     | Y | CHAR          |
| 25 | ctaxstate      | Y | CHAR          |
| 26 | csutastate     | Y | CHAR          |
| 27 | cltaxstate     | Y | CHAR          |
| 28 | cltaxcd        | Y | CHAR          |
| 29 | capplycd       | Y | CHAR          |
| 30 | cprenote       | Y | CHAR          |
| 31 | cw2year        | Y | CHAR          |
| 32 | dhire          |   | Datetime      |
| 33 | dterminate     |   | Datetime      |
| 34 | dbirth         |   | Datetime      |
| 35 | deff           |   | Datetime      |
| 36 | dnextpf        |   | Datetime      |
| 37 | dnextsal       |   | Datetime      |
| 38 | dlastpaid      |   | Datetime      |
| 39 | dprenote       |   | Datetime      |
| 40 | lallowot       |   | SMALLINT      |
| 41 | lepayment      |   | SMALLINT      |
| 42 | lusetips       |   | SMALLINT      |
| 43 | lfica          |   | SMALLINT      |
| 44 | lmedi          |   | SMALLINT      |
| 45 | lfuta          |   | SMALLINT      |
| 46 | lsuta          |   | SMALLINT      |
| 47 | lsdi           |   | SMALLINT      |
| 48 | leic           |   | SMALLINT      |
| 49 | lftax          |   | SMALLINT      |

| No | Nombre Columna | M | Tipo de Datos |
|----|----------------|---|---------------|
| 50 | lstax          |   | SMALLINT      |
| 51 | lsres          |   | SMALLINT      |
| 52 | lltax          |   | SMALLINT      |
| 53 | llres          |   | SMALLINT      |
| 54 | lapply         |   | SMALLINT      |
| 55 | nbpayrate      | Y | NUMERIC       |
| 56 | napayrate      | Y | NUMERIC       |
| 57 | nrhr           | Y | NUMERIC       |
| 58 | nafwt          | Y | NUMERIC       |
| 59 | nfallow        | Y | NUMERIC       |
| 60 | naswt          | Y | NUMERIC       |
| 61 | nsallow        | Y | NUMERIC       |
| 62 | nalwt          | Y | NUMERIC       |
| 63 | csrcid         | Y | CHAR          |
| 64 | cplnid         | Y | CHAR          |
| 65 | cshfid         | Y | CHAR          |
| 66 | cmssc1id       | Y | CHAR          |
| 67 | cmssc2id       | Y | CHAR          |
| 68 | cmssc3id       | Y | CHAR          |
| 69 | cmssc4id       | Y | CHAR          |
| 70 | cmssc5id       | Y | CHAR          |
| 71 | csegid1        | Y | CHAR          |
| 72 | csegid2        | Y | CHAR          |
| 73 | csegid3        | Y | CHAR          |
| 74 | csegid4        | Y | CHAR          |
| 75 | csegid5        | Y | CHAR          |
| 76 | lPaySlip       | Y | SMALLINT      |
| 77 | ccustno        | Y | CHAR          |
| 78 | cdayoff        | Y | CHAR          |
| 79 | cbatchid       | Y | CHAR          |
| 80 | nmonthpay      | Y | NUMERIC       |
| 81 | nlstmthpay     | Y | NUMERIC       |
| 82 | ltemporal      | Y | SMALLINT      |
| 83 | nfixover       | Y | NUMERIC       |
| 84 | crtm           | Y | CHAR          |
| 85 | dcntrct        |   | Datetime      |
| 86 | laddtax1       | Y | SMALLINT      |
| 87 | laddtax2       | Y | SMALLINT      |
| 88 | laddtax3       | Y | SMALLINT      |
| 89 | ltax11mth      | Y | SMALLINT      |

## Diagrama Relacional: “mpsiafi”

| tbl_prempy   |          |
|--------------|----------|
| * cempno     | CHAR     |
| * cfname     | CHAR     |
| * clname     | CHAR     |
| * cinitial   | CHAR     |
| * cssn       | CHAR     |
| * cdeptno    | CHAR     |
| * cstatus    | CHAR     |
| * cdedid     | CHAR     |
| * caddr1     | CHAR     |
| * caddr2     | CHAR     |
| * ccity      | CHAR     |
| * cstate     | CHAR     |
| * czip       | CHAR     |
| * cphone     | CHAR     |
| * cjobtitle  | CHAR     |
| * csex       | CHAR     |
| * ccitizen   | CHAR     |
| * ceoid      | CHAR     |
| * cethniccd  | CHAR     |
| * cpaytype   | CHAR     |
| * cpayperiod | CHAR     |
| * cmarry     | CHAR     |
| * cmtype     | CHAR     |
| * ceicstatus | CHAR     |
| * ctaxstate  | CHAR     |
| * csutastate | CHAR     |
| * cltaxstate | CHAR     |
| * cltaxcd    | CHAR     |
| * capplycd   | CHAR     |
| * cprenote   | CHAR     |
| * cw2year    | CHAR     |
| * dhire      | DATE     |
| * dterminate | DATE     |
| * dbirth     | DATE     |
| * deff       | DATE     |
| * dnextpf    | DATE     |
| * dnextsal   | DATE     |
| * dlastpaid  | DATE     |
| * dprenote   | DATE     |
| * lallowot   | SMALLINT |
| * lepayment  | SMALLINT |
| * lusetips   | SMALLINT |
| * lfica      | SMALLINT |
| * lmedi      | SMALLINT |
| * lfuta      | SMALLINT |
| * lsuta      | SMALLINT |
| * lsdi       | SMALLINT |
| * leic       | SMALLINT |
| * lftax      | SMALLINT |
| * lstax      | SMALLINT |
| * lsres      | SMALLINT |
| * lltax      | SMALLINT |
| * llres      | SMALLINT |
| * lapply     | SMALLINT |
| * nbpayrate  | NUMBER   |
| * napayrate  | NUMBER   |
| * nrhr       | NUMBER   |
| * nafvt      | NUMBER   |
| * nfallow    | NUMBER   |
| * nasvt      | NUMBER   |
| * nsallow    | NUMBER   |
| * nalwt      | NUMBER   |
| * csrctid    | CHAR     |
| * cplnid     | CHAR     |
| * cshfid     | CHAR     |
| * cmssc1id   | CHAR     |
| * cmssc2id   | CHAR     |
| * cmssc3id   | CHAR     |
| * cmssc4id   | CHAR     |
| * cmssc5id   | CHAR     |
| * csegid1    | CHAR     |
| * csegid2    | CHAR     |
| * csegid3    | CHAR     |
| * csegid4    | CHAR     |
| * csegid5    | CHAR     |
| * lPaySlip   | SMALLINT |
| * ccustno    | CHAR     |
| * cdayoff    | CHAR     |
| * cbatchid   | CHAR     |
| * nmonthpay  | NUMBER   |
| * nlstnmpay  | NUMBER   |
| * ltemporal  | SMALLINT |
| * nfixover   | NUMBER   |
| * crtn       | CHAR     |
| * dcntrct    | DATE     |
| * laddtax1   | SMALLINT |
| * laddtax2   | SMALLINT |
| * laddtax3   | SMALLINT |
| * ltax11mth  | SMALLINT |

| tbl_prmisc   |          |
|--------------|----------|
| * cuid       | CHAR     |
| * cempno     | CHAR     |
| * clname     | CHAR     |
| * cfname     | CHAR     |
| * ctaxstate  | CHAR     |
| * cdeptno    | CHAR     |
| * cpaytype   | CHAR     |
| * cref       | CHAR     |
| * ctrsno     | CHAR     |
| * cbankno    | CHAR     |
| * cchkno     | CHAR     |
| * dtrs       | DATE     |
| * dcheck     | DATE     |
| * ltaxable   | SMALLINT |
| * nothtax    | NUMBER   |
| * nothntax   | NUMBER   |
| * csegid1    | CHAR     |
| * csegid2    | CHAR     |
| * csegid3    | CHAR     |
| * csegid4    | CHAR     |
| * csegid5    | CHAR     |
| * csegmid    | CHAR     |
| * ccycle     | CHAR     |
| * cpayno     | CHAR     |
| * cpaycode   | CHAR     |
| * nqty       | NUMBER   |
| * nrate      | NUMBER   |
| * lsystem    | SMALLINT |
| * nothertax  | NUMBER   |
| * nBaseGrTax | NUMBER   |
| * cdocno     | CHAR     |
| * cdoctyp    | CHAR     |

| tbl_prdept   |          |
|--------------|----------|
| * cdeptno    | CHAR     |
| * cdeptname  | CHAR     |
| * cwageacc   | CHAR     |
| * ctaxacc    | CHAR     |
| * cpaytype   | CHAR     |
| * cpayperiod | CHAR     |
| * lallowot   | SMALLINT |
| * lepayment  | SMALLINT |
| * lusetips   | SMALLINT |
| * nrhr       | NUMBER   |
| * cficaeracc | CHAR     |
| * cmedieracc | CHAR     |
| * cfutaeracc | CHAR     |
| * csutaeracc | CHAR     |
| * cficaacc   | CHAR     |
| * cmediacc   | CHAR     |
| * cfutaacc   | CHAR     |
| * csutaacc   | CHAR     |
| * cdeptglseg | CHAR     |

| tbl_bgbudt |        |
|------------|--------|
| * cuid     | CHAR   |
| * cbudid   | CHAR   |
| * cbudno   | CHAR   |
| * cdesc    | CHAR   |
| * cstmacct | CHAR   |
| * crsvacct | CHAR   |
| * cclsid   | CHAR   |
| * ctypid   | CHAR   |
| * cdeptno  | CHAR   |
| * namt     | NUMBER |
| * namtused | NUMBER |
| * nqty     | NUMBER |
| * nqtyused | NUMBER |
| * tmodrec  | DATE   |
| * namtaccr | NUMBER |
| * nqtyaccr | NUMBER |
| * namtmod  | NUMBER |
| * nqtypmod | NUMBER |

| bgadjm     |          |
|------------|----------|
| * cadjno   | CHAR     |
| * cbudid   | CHAR     |
| * cbudno   | CHAR     |
| * cappcode | CHAR     |
| * cdesc    | CHAR     |
| * dtrs     | DATE     |
| * cuser    | CHAR     |
| * nadjamt  | NUMBER   |
| * nadjqty  | NUMBER   |
| * mnotepad | CLOB     |
| * tmodrec  | DATE     |
| * lvoid    | SMALLINT |
| * dvoid    | DATE     |

| prempg       |        |
|--------------|--------|
| * cuid       | CHAR   |
| * cempno     | CHAR   |
| * cwageacc   | CHAR   |
| * ctaxacc    | CHAR   |
| * ndistpct   | NUMBER |
| * cfwtacc    | CHAR   |
| * cficaacc   | CHAR   |
| * cmediacc   | CHAR   |
| * cfutaacc   | CHAR   |
| * csutaacc   | CHAR   |
| * cficaeracc | CHAR   |
| * cmedieracc | CHAR   |
| * cfutaeracc | CHAR   |
| * csutaeracc | CHAR   |

| bgtrfm   |          |
|----------|----------|
| ctrfno   | CHAR     |
| cbudid   | CHAR     |
| cfbudno  | CHAR     |
| ctbudno  | CHAR     |
| cappcode | CHAR     |
| cdesc    | CHAR     |
| dtrs     | DATE     |
| cuser    | CHAR     |
| ntrfamt  | NUMBER   |
| ntrfqty  | NUMBER   |
| mnotepad | CLOB     |
| tmodrec  | DATE     |
| lvoid    | SMALLINT |
| dvoid    | DATE     |

| tbl_apchck  |          |
|-------------|----------|
| * cvendno   | CHAR     |
| * cpayto    | CHAR     |
| * cchktype  | CHAR     |
| * cbankno   | CHAR     |
| * cchkno    | CHAR     |
| * ctogl     | CHAR     |
| * dcheck    | DATE     |
| * dcreate   | DATE     |
| * lcancel   | SMALLINT |
| * lhold     | SMALLINT |
| * nchkamt   | NUMBER   |
| * nfchkamt  | NUMBER   |
| * nxchgrate | NUMBER   |
| * nbchkamt  | NUMBER   |

| tbl_bgbudp |        |
|------------|--------|
| * cuid     | CHAR   |
| * cbudid   | CHAR   |
| * cbudno   | CHAR   |
| * cyear    | CHAR   |
| * cpdno    | CHAR   |
| * namt     | NUMBER |
| * namtused | NUMBER |
| * nqty     | NUMBER |
| * nqtyused | NUMBER |
| * tmodrec  | DATE   |
| * namtaccr | NUMBER |
| * nqtyaccr | NUMBER |
| * namtmod  | NUMBER |
| * nqtypmod | NUMBER |

| tbl_HRJobs   |          |
|--------------|----------|
| * cJobTitINO | VARCHAR2 |
| * cDesc      | VARCHAR2 |
| * nSalary    | NUMBER   |
| * nPorPlus   | NUMBER   |
| * mnotepad   | VARCHAR2 |
| * tmodrec    | DATE     |

| tbl_prmisd |          |
|------------|----------|
| * cuid     | CHAR     |
| * cempno   | CHAR     |
| * cdedno   | CHAR     |
| * cdedcode | CHAR     |
| * cpayno   | CHAR     |
| * ndedamt  | NUMBER   |
| * tmodrec  | DATE     |
| * lsystem  | SMALLINT |
| * cdesc    | CHAR     |
| * ctrsno   | CHAR     |