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

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Tabla de contenido

[Introducción 3](#_Toc396669247)

[Scripts de procedimientos almacenados 4](#_Toc396669248)

[Diccionario de Datos 14](#_Toc396669249)

[Base de Datos: mpsiafireportes 14](#_Toc396669250)

[Nombre Tabla: tbl\_rol 14](#_Toc396669251)

[Nombre Tabla: tbl\_rol\_usuario 14](#_Toc396669252)

[Nombre Tabla: tbl\_usuario 14](#_Toc396669253)

[Nombre Tabla: tbl\_apchck 14](#_Toc396669254)

[Nombre Tabla: tbl\_accchk 15](#_Toc396669255)

[Diagrama Relacional: “mpsiafireportes” 15](#_Toc396669256)

[Base de datos: mpsiafi 16](#_Toc396669257)

[Nombre Tabla: bgadjm 16](#_Toc396669258)

[Nombre Tabla: bgtrfm 16](#_Toc396669259)

[Nombre Tabla: prempg 17](#_Toc396669260)

[Nombre Tabla: HRJobs 17](#_Toc396669261)

[Nombre Tabla: apchck 17](#_Toc396669262)

[Nombre Tabla: bgbudp 18](#_Toc396669263)

[Nombre Tabla: bgbudt 18](#_Toc396669264)

[Nombre Tabla: prmisd 18](#_Toc396669265)

[Nombre Tabla: prmisc 19](#_Toc396669266)

[Nombre Tabla: prdept 20](#_Toc396669267)

[Nombre Tabla: prempy 20](#_Toc396669268)

[Diagrama Relacional: “mpsiafi” 22](#_Toc396669269)

## 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 Publico 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 centregado=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.cdesc 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,cdesc)

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.nqty\*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.cdesc 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.namt)) 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.ntrfamt 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())

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.prnombre + ' ' + usr.prapellido + ' - ' + 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 |

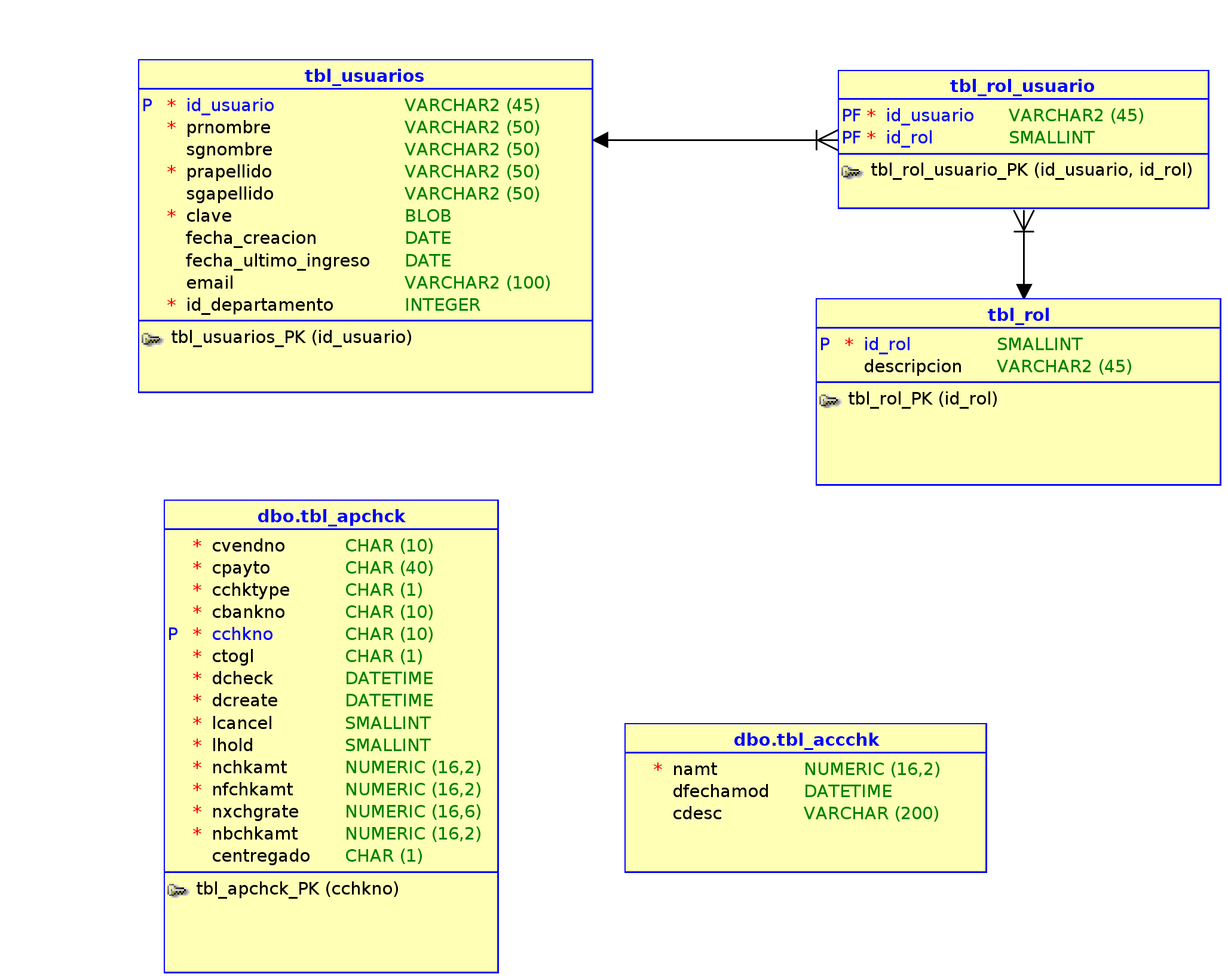
### Nombre Tabla: tbl\_apchck

| **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) |
| 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 | mnotepad |  | 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 | nqtymod | 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 | nqtymod | Y | NUMERIC |

### Nombre Tabla: prmisd

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

| **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 |
| 27 | nrate |  | NUMERIC |
| 28 | lsystem |  | 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 | cempno | 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 |
| 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 | cmtype | 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 |
| 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 | cmsc1id | Y | CHAR |
| 67 | cmsc2id | Y | CHAR |
| 68 | cmsc3id | Y | CHAR |
| 69 | cmsc4id | Y | CHAR |
| 70 | cmsc5id | 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 | crtn | Y | CHAR |
| 85 | dcntrct |  | Datetime |
| 86 | laddtax1 | Y | SMALLINT |
| 87 | laddtax2 | Y | SMALLINT |
| 88 | laddtax3 | Y | SMALLINT |
| 89 | ltax11mth | Y | SMALLINT |

### Diagrama Relacional: “mpsiafi”

