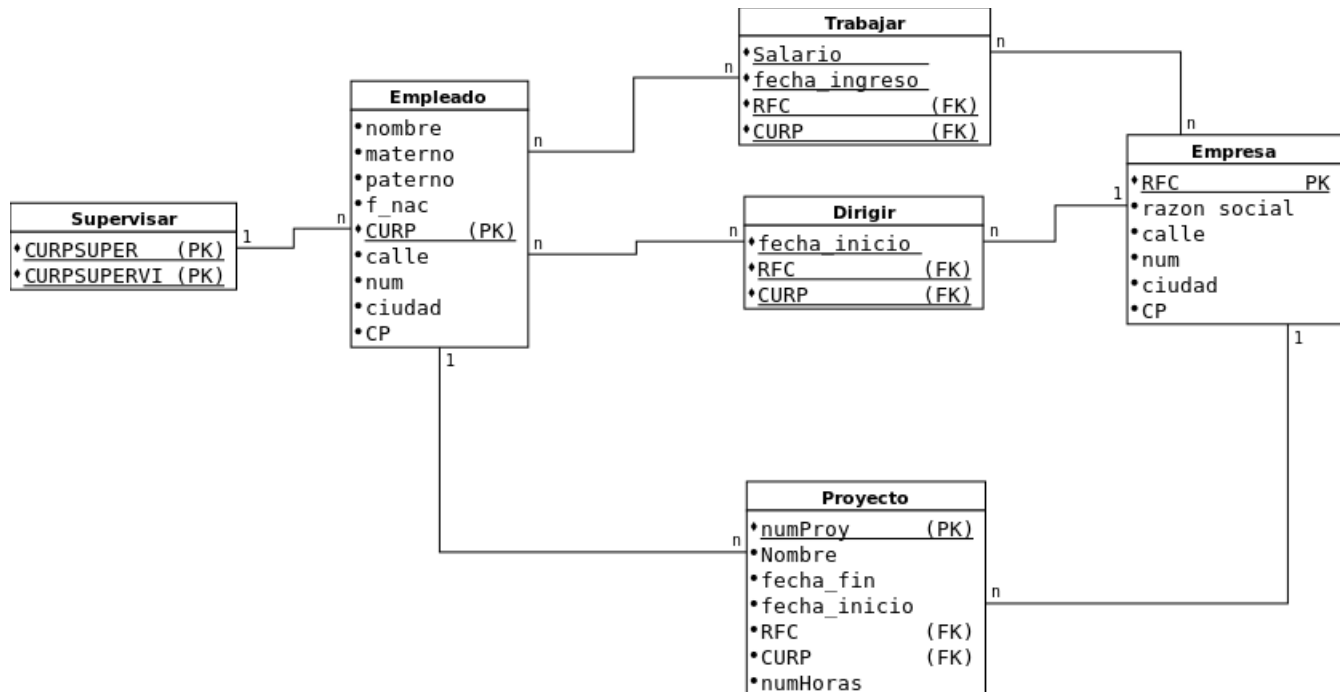


1.-MODELO RELACIONAL:



4.-CONSULTAS:

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries

```
--EJERCICIO a)
select nombre,ciudad
from
empresa.empleado
natural join
(Select curp from
empresa.trabajar
natural join
empresa.empresa
WHERE
razon social LIKE 'PEMEX%') as dfr;

--EJERCICIO b)
select nombre,materno,paterno,curp
from
empresa.empleado
natural join
(Select ciudad from
empresa.trabajar
natural join
empresa.empresa
WHERE
razon social LIKE 'PEMEX%') as dfr;
```

Output pane

	nombre character varying(30)	ciudad character varying(40)
1	Pryce	Bakung
2	Aleda	Guéret
3	Araldo	Jintan
4	Kennan	Loures
5	Ealasaid	Yuqian

OK. Unix Ln 1, Col 1, Ch 1 176 chars 7 rows. 12 msec

Menú [sorting - algorithm - ...] [Tarea6_SQLpdf - C...] pgAdmin III Query - TareaExam ... 8:32

MARTINEZ HERNANDEZ LUIS EDUARDO 314240028
Tarea6.Lenguaje de consulta SQL

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

TareaExam on postgres@LocalHost:5432

SQL Editor Graphical Query Builder

Previous queries [Delete] [Delete All]

```
WHERE
  razon_social LIKE 'PEMEX%') as dfr;

--EJERCICIO b)
select nombre,materno,paterno,curp
from
  empresa.empleado
natural join
  (select ciudad from
  empresa.trabajar
  natural join
  empresa.empresa)as dfr;

--Ejercicio c)
select curp,salario
FROM
  (select CURP
  from
  empresa.diccionario
```

Scratch pad

Output pane

Data Output Explain Messages History

	nombre character varying(30)	materno character varying(30)	paterno character varying(30)	curp character(18)
1	Iona	Shurrocks	Teasey	sees033519dashes23
2	Iona	Shurrocks	Teasey	sees033519dashes23
3	Iona	Shurrocks	Teasey	sees033519dashes23
4	Iona	Shurrocks	Teasey	sees033519dashes23
5	Iona	Shurrocks	Teasey	sees033519dashes23

OK. Unix Ln 14, Col 1, Ch 194 143 chars 6 rows. 12 msec

Menú [sorting - algorithm ...] [Tarea6_SQL.pdf - C...] pgAdmin III Query - TareaExam ... 8:36

MARTINEZ HERNANDEZ LUIS EDUARDO 314240028

Tarea6.Lenguaje de consulta SQL

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [Delete] [Delete All]

```
empresatrabajar
natural join
empresatrabajaras dfr;

--Ejercicio c)
select curp,salario
FROM
(select CURP
from
empresadirigir
natural join
empresaepleado) as dt
natural join
empresatrabajar;

--Ejercicio d)
select curp,rfc
from
(select curp,rfc,(extract('month' from fecha_inicio::DATE - 9)::int - 1)/ 3 + 1 as d
```

Scratch pad

Output pane

Data Output Explain Messages History

	curp character(18)	salario numeric(20,0)
1	snug379494smarts21	41542
2	fund878582pony's84	19240
3	open029820invert74	82310
4	gift233472prayed24	43965
5	rips617058phlegm32	52937

OK

Unix Ln 33, Col 18, Ch 482 128 chars 71 rows. 2 msec

Menú [sorting - algorithm ...] [Tarea6_SQL.pdf - C...] pgAdmin III Query - TareaExam ... 8:36

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [Delete] [Delete All]

```
empresaepleado) as dt
natural join
empresatrabajar;

--Ejercicio d)
select curp,rfc
from
(select curp,rfc,(extract('month' from fecha_inicio::DATE - 9)::int - 1)/ 3 + 1 as d
from
empresadirigir
where
date_part('year', fecha_inicio) = 2014) as drf
where
d= 1 or d = 3;

--Ejercicio e)
select dr.curp,dr.ciudad,dr.nombre
from
(select curp,ciudad,nombre
```

Scratch pad

Output pane

Data Output Explain Messages History

	curp character(18)	rfc character(12)
1	jets991326attend51	ohs668293017
2	tidy312790vacant92	hip430806457
3	Mr's246565prudes50	tot234764824

OK

Unix Ln 35, Col 15, Ch 498 199 chars 3 rows. 12 msec

Menú [sorting - algorithm ...] [Tarea6_SQL.pdf - C...] pgAdmin III Query - TareaExam ... 8:37

MARTINEZ HERNANDEZ LUIS EDUARDO 314240028
Tarea6.Lenguaje de consulta SQL

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries

```
--Ejercicio e)
select dr.curp,dr.ciudad,dr.nombre
from
(Select curp,ciudad,nombre
from
empresa.supervisor s
join
empresa.empleado e
on
s.curp supervisado = e.curp) as dr
join
(Select curp,ciudad,nombre
from
empresa.supervisor s
join
empresa.empleado e
on
s.curp supervisor = e.curp) as df
```

Scratch pad

Output pane

Data Output Explain Messages History

	curp character(18)	ciudad character varying(40)	nombre character varying(30)
1	coke962610shyest89	Guanabacoa	Clemente
2	okra353855stoles74	Kandangan	Laughton
3	ID's247977nudged37	Prochowice	Fawnia
4	spur341740museum78	Terjan	Kimble
5	wind301196eyelid10	Shangping	Sabina

OK. Unix Ln 46, Col 15, Ch 713 302 chars 189 rows. 21 msec

Menú [sorting - algorithm - ...] [Tarea6_SQL.pdf - C...] pgAdmin III Query - TareaExam ... 8:37

MARTINEZ HERNANDEZ LUIS EDUARDO 314240028

Tarea6.Lenguaje de consulta SQL

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

TareaExam on postgres@LocalHost:5432

SQL Editor Graphical Query Builder

Previous queries [Delete] [Delete All]

```
--Ejercicio f)
select razon_social,AVG(salario)
from
  empresa.empresa
natural join
  (Select rfc,salario from
  empresa.trabajar
  natural join
  empresa.empleado) as dfr
group by razon_social;

--Ejercicio g)
--No se resolvio

--Ejercicio h)
```

Scratch pad

Output pane

Data Output Explain Messages History

	razon_social character varying(50)	avg numeric
1	positioned C.A de C.V	84885.500000000000
2	exterior's C.A de C.V	49555.000000000000
3	collisions C.A de C.V	37157.250000000000
4	veterinary C.A de C.V	43266.000000000000
5	thoughtful C.A de C.V	49623.000000000000

OK

Unix Ln 68, Col 1, Ch 1032 170 chars 98 rows. 11 msec

Menú [sorting - algorithm ...] [Tarea6_SQL.pdf - C...] [pgAdmin III] [Query - TareaExam ...] 8:38

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

TareaExam on postgres@LocalHost:5432

SQL Editor Graphical Query Builder

Previous queries [Delete] [Delete All]

```
--Ejercicio g)
--No se resolvio

--Ejercicio h)
select razon_social,COUNT(salario)
from
  empresa.empresa
natural join
  (Select rfc,salario from
  empresa.trabajar
  natural join
  empresa.empleado) as dfr
group by razon_social;

--Ejercicio i)
select nombre,df.curp,numHoras
from
  empresa.empresa
```

Scratch pad

Output pane

Data Output Explain Messages History

	razon_social character varying(50)	count bigint
1	positioned C.A de C.V	2
2	exterior's C.A de C.V	5
3	collisions C.A de C.V	4
4	veterinary C.A de C.V	2
5	thoughtful C.A de C.V	7

OK

Unix Ln 83, Col 1, Ch 1252 171 chars 98 rows. 12 msec

Menú [sorting - algorithm ...] [Tarea6_SQL.pdf - C...] [pgAdmin III] [Query - TareaExam ...] 8:38

MARTINEZ HERNANDEZ LUIS EDUARDO 314240028

Tarea6.Lenguaje de consulta SQL

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [Delete] [Delete All]

```
--Ejercicio i)
select nombre,df.curp,numHoras
from
empresa.proyecto r
join
(select e.curp,count(e.curp)
from
empresa.empleado e
join
empresa.proyecto p
on
e.curp = p.curp
group by e.curp
having count(e.curp) > 1) as df
on
df.curp = r.curp
where
numHoras > 20;
```

Output pane

Data Output Explain Messages History

	nombre character varying(30)	curp character(18)	numhoras numeric(4,0)
1	Tampflex	span648862harm's38	59

OK. Unix Ln 94, Col 15, Ch 1440 246 chars 1 row. 11 msec

Menú [sorting - algorithm - ...] [Tarea6_SQL.pdf - C...] [pgAdmin III] [Query - TareaExam ...]

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [Delete] [Delete All]

```
numHoras > 20;

--Ejercicio j)
select razon social,COUNT(curp)
from
empresa.empresa
natural join
(select rfc,curp from
empresa.trabajar
natural join
empresa.empleado) as dfr
group by razon social;

--Ejercicio k)
--No se resolvio

--Ejercicio l)
--No se resolvio
```

Output pane

Data Output Explain Messages History

	razon social character varying(50)	count bigint
1	positioned C.A de C.V	2
2	exterior's C.A de C.V	5
3	collisions C.A de C.V	4
4	veterinary C.A de C.V	2
5	thoughtful C.A de C.V	7

OK. Unix Ln 114, Col 1, Ch 1703 165 chars 98 rows. 13 msec

Menú [sorting - algorithm - ...] [Tarea6_SQL.pdf - C...] [pgAdmin III] [Query - TareaExam ...]

MARTINEZ HERNANDEZ LUIS EDUARDO 314240028

Tarea6.Lenguaje de consulta SQL

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

TareaExam on postgres@LocalHost:5432

SQL Editor Graphical Query Builder

Previous queries

--No se resolvió
--Ejercicio m)
Select *
from
empresa.empleado
natural join
(select curp,rfc
from
empresa.trabajar
natural join
(
select rfc
from
empresa.empresa
natural join
(select rfc,COUNT(curp) cant
from

Scratch pad

Output pane

Data Output Explain Messages History

	curp character(18)	nombre character varying(30)	materno character varying(30)	paterno character varying(30)	f_nac date	num numeric(4,0)	calle character varying(80)	ciudad character varying(40)	cp numeric(5,0)	rfc character(12)
1	okra353855stoles74	Laughton	Latliff	Domniney	1992-06-12	786	Sunbrook	Kandangan	66116	mow403127708
2	cork140541rounds84	Junina	Showalter	Linacre	1992-05-20	917	Hooker	Rasskazovo	83514	wit028065720
3	thus989547staged08	Lammond	Egrave	Lenormand	1987-05-11	71	Summer Ridge	Butuan	42754	ran034416120
4	ease835765maxima40	Juliana	Kleinschmidt	Strange	1991-01-21	338	Annamark	Ankola	41144	bar903003567
5	tipi922146defame56	Philippine	Ros	Schulze	1992-11-16	220	Armistice	Dū Qal'ah	40360	tax698538405

OK. Unix Ln 129, Col 17, Ch 1935 537 chars 7 rows. 12 msec

MARTINEZ HERNANDEZ LUIS EDUARDO 314240028

Tarea6.Lenguaje de consulta SQL

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries

```
natural join
empres.a.empleado) as dfr
group by rfc) as dr)) as dr) as dr;

--Ejercicio n)
Select *
from
empres.a.proyecto
natural join
(
Select curp
from
empres.a.empleado
natural join
(Select curp
from
empres.a.dirigir) as df) as dr;
```

Output pane

Data Output Explain Messages History

	curp character(18)	numproy numeric(50,0)	nombre character varying(30)	fecha_inicio date	fecha_fin date	rfc character(12)	numhoras numeric(4,0)
1	woks906514minted17	10	Ventosanzap	2014-03-21	2017-02-01	I'm851182944	76
2	dabs441986cool's80	14	Voyatouch	2004-04-15	2003-12-26	nil338161568	89
3	open029820invert74	28	Trippledex	2011-08-03	2005-03-03	mow172436622	31
4	bulb026706whip's25	32	It	2001-12-20	2005-02-21	C's473561108	23
5	spun388831amulet40	35	Veribet	2007-09-10	2016-01-15	sin318378753	81

OK

Unix Ln 169, Col 15, Ch 2488 143 chars 8 rows. 13 msec

Menú [sorting - algorithm ...] [Tarea6_SQL.pdf - C...] pgAdmin III Query - TareaExam ... 8:40

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries

```
--Ejercicio q)
select curp,nombre,materno,paterno
from
empres.a.empleado
where
curp NOT IN (
Select p.CURP
from
empres.a.empleado e
join
empres.a.proyecto p
on
e.curp = p.curp);

--Ejercicio r)
select rfc,ciudad,razon_social,count(curp) numeroEmpleados
from
empres.a.empres a
natural join
```

Output pane

Data Output Explain Messages History

	curp character(18)	nombre character varying(30)	materno character varying(30)	paterno character varying(30)
1	jets991326attend51	MarLeah	Truder	Kydde
2	pays584851tuba's73	Pyotr	Mather	Merill
3	tows372235guides05	Aubree	MacPherson	Ducker
4	byte499544utters62	Gery	Philipart	Jeandel
5	ox's303412bomber27	Sonni	Utterson	Torrijos

OK

Unix Ln 190, Col 15, Ch 2714 161 chars 451 rows. 41 msec

Menú [sorting - algorithm ...] [Tarea6_SQL.pdf - C...] pgAdmin III Query - TareaExam ... 8:40

MARTINEZ HERNANDEZ LUIS EDUARDO 314240028
Tarea6.Lenguaje de consulta SQL

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [Delete] [Delete All]

```
on
e.curp = p.curp);

--Ejercicio r)
select rfc,ciudad,razon_social,count(curp) numeroEmpleados
from
empresa.empresa e
natural join
(select ciudad,curp
from
empresa.empleado
natural join
empresa.trabajar) as dr
group by
rfc;

--Ejercicio s)
Select numProy,numHoras,cnt
from
empresa.Proyecto
```

Scratch pad

Output pane

Data Output Explain Messages History

	rfc	ciudad	razon_social	numeroempleados
	character(12)	character varying(40)	character varying(50)	bigint
1	sub735538680	Baiguo	subtlety's C.A de C.V	2

OK. Unix Ln 204, Col 15, Ch 2891 188 chars 1 row. 12 msec

Menú [sorting - algorithm - ...] [Tarea6_SQL.pdf - C...] pgAdmin III Query - TareaExam ... 8:40

MARTINEZ HERNANDEZ LUIS EDUARDO 314240028
Tarea6.Lenguaje de consulta SQL

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [v] [Delete] [Delete All]

```
--Ejercicio s)
Select numProy,numHoras,cnt
from
empresa.Proyecto
natural join
(select numProy,count(carp) cnt
from
empresa.proyecto
group by
numProy) as df
Where
cnt = (Select
Max(cnt)
from (select numProy,count(carp) cnt
from
empresa.proyecto
group by
numProy)as dr);
```

Scratch pad

Output pane

Data Output Explain Messages History

	numproy numeric(50,0)	numhoras numeric(4,0)	cnt bigint	
1	21	32	1	
2	13	85	1	
3	39	15	1	
4	44	43	1	
5	3	9	1	

OK

Unix Ln 217, Col 15, Ch 3095 256 chars 50 rows. 13 msec

Menú [Icons] [sorting - algorithm ...] [Tarea6_SQL.pdf - C...] [pgAdmin III] [Query - TareaExam ...] [Icons] 8:41

MARTINEZ HERNANDEZ LUIS EDUARDO 314240028

Tarea6.Lenguaje de consulta SQL

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [Delete] [Delete All]

```
from (select numProy,count(curp) cnt
from
empresa.proyecto
group by
numProy)as dr);

--Ejercicio t)
select e.nombre,e.materno,e.paterno,e.curp
from
empresa.proyecto p
join
empresa.empleado e
on
e.curp = p.curp
where
Extract('day' from fecha_inicio ) = extract('day' from f_nac)
and
Extract('month' from fecha_inicio ) = extract('month' from f_nac);

--Ejercicio u)
```

Output pane

Data Output Explain Messages History

	nombre character varying(30)	materno character varying(30)	paterno character varying(30)	curp character(18)
1	Mignon	Clowley	McGuggy	yank829319cancer70

OK. Unix Ln 237, Col 1, Ch 3368 252 chars 1 row. 13 msec

Menú [Icons] c++ - Algorithm: Sort... [Tarea6_SQL.pdf - C... pgAdmin III Query - TareaExam ... 8:48

Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries [Delete] [Delete All]

```
To_Char(fecha_inicio,'day month') = To_Char(f_nac,'day month')
and
e.curp = p.curp;

--Ejercicio u)
Select curp,nombre,numeroEmpleados
from
empresa.empleado
join
(select curp_supervisor,count(curp_supervisado) numeroEmpleados
from
empresa.supervisor
group by
curp_supervisor) as df
on
curp = curp_supervisor;

--Ejercicio v)
select curp,nombre
from
```

Output pane

Data Output Explain Messages History

	curp character(18)	nombre character varying(30)	numeroempleados bigint
1	bugs477256ballet62	Dolley	1
2	gays297515myriad65	Denys	1
3	seek120260many's61	Amitie	1
4	go's917472wake's87	Kelci	1
5	roam753039source82	Kellsie	1

OK. Unix Ln 247, Col 15, Ch 3561 209 chars 300 rows. 21 msec

Menú [Icons] [sorting - algorithm - ... [Tarea6_SQL.pdf - C... pgAdmin III Query - TareaExam ... 8:41

MARTINEZ HERNANDEZ LUIS EDUARDO 314240028
Tarea6.Lenguaje de consulta SQL

The screenshot shows a PostgreSQL query editor window titled "Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]". The window has a menu bar (File, Edit, Query, Favourites, Macros, View, Help) and a toolbar. Below the toolbar are tabs for "SQL Editor" and "Graphical Query Builder".

The "SQL Editor" tab contains two queries. The first query, labeled "--Ejercicio v)", is a self-join on the "empresa.dirigir" table. The second query, labeled "--Ejercicio w)", is a simple select from the "empresa.empleado" table.

The "Output pane" at the bottom shows the results of the first query. It has tabs for "Data Output", "Explain", "Messages", and "History". The "Data Output" tab displays a table with two columns: "curp" (character(18)) and "nombre" (character varying(30)). The first row of data is "jets991326attend51" and "MarLeah".

```
--Ejercicio v)
select curp,nombre
from empresa.dirigir
natural join
empresa.empleado
where age(f_nac,now()) < age('1968-01-01',now());

--Ejercicio w)
Select *
from
empresa.empleado
where
paterno LIKE 'A%'
```

	curp character(18)	nombre character varying(30)
1	jets991326attend51	MarLeah

At the bottom of the window, a status bar shows "OK", "Unix", "Ln 260, Col 15, Ch 3786", "120 chars", "1 row.", "12 msec", and a system tray with icons for network, volume, and battery.

MARTINEZ HERNANDEZ LUIS EDUARDO 314240028
Tarea6.Lenguaje de consulta SQL

The screenshot shows a PostgreSQL SQL Editor window titled "Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]". The window has a menu bar (File, Edit, Query, Favourites, Macros, View, Help) and a toolbar. The main editor area contains the following SQL code:

```
from
empresa.dirigir
natural join
empresa.empleado
where age(f_nac,now()) < age('1968-01-01',now());

--Ejercicio w)
Select *
from
empresa.empleado
where
paterno LIKE 'A%'
OR
paterno LIKE 'D%'
OR
paterno LIKE 'G%'
OR
paterno LIKE 'J%'
OR
paterno LIKE 'L%'
```

Below the editor is the "Output pane" with tabs for "Data Output", "Explain", "Messages", and "History". The "Data Output" tab is active, showing a table with two columns: "curp" (character(18)) and "nombre" (character varying(30)). The table contains one row of data:

	curp	nombre
1	jets991326attend51	Marleah

The status bar at the bottom indicates "OK", "Unix", "Ln 268, Col 15, Ch 3922", "182 chars", "1 row.", and "12 msec". The taskbar at the very bottom shows several open applications, including "pgAdmin III" and "Query - TareaExam ...".

MARTINEZ HERNANDEZ LUIS EDUARDO 314240028
Tarea6.Lenguaje de consulta SQL

MARTINEZ HERNANDEZ LUIS EDUARDO 314240028

Tarea6.Lenguaje de consulta SQL

The screenshot shows a PostgreSQL SQL Editor window titled "Query - TareaExam on postgres@LocalHost:5432 - [/home/luis/Escritorio/TareaExamen4/Querys.sql]". The window has a menu bar (File, Edit, Query, Favourites, Macros, View, Help) and a toolbar. The main editor area contains the following SQL code:

```
paterno LIKE 'L%'
OR
paterno LIKE 'P%'
OR
paterno LIKE 'R%';

--Ejercicio x)
select numProy,nombre,count(curp)
from
empresa.proyecto
group by
numProy
having
Extract(month from fecha_inicio) = 12;

--Ejercicio y)
--No se resolvió
```

Below the editor is the "Output pane" with tabs for "Data Output", "Explain", "Messages", and "History". The "Data Output" tab is active, showing a table with 5 rows and 3 columns:

	numproy numeric(50,0)	nombre character varying(30)	count bigint
1	5	Cardguard	1
2	31	Vagram	1
3	32	It	1
4	36	Trippledex	1
5	43	Bamity	1

The status bar at the bottom indicates "OK", "Unix", "Ln 287, Col 15, Ch 4120", "119 chars", "8 rows", "12 msec", and the system time "8:42".

5.-POLITICAS DE MANTENIMIENTO:

Nulos:

Esta politica es buena por si quieres acceder a tuplas que ya borraste, Pero por la misma razon es mala porque siguen estando las tuplas ahi

Cascada:

Esta politica es buena porque se asegura de mantener la integridad referencial y la consistencia de los datos, pero es mala porque en el proceso puede borrar cosas que si importanban