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Las siguientes consultas fueron realizadas y probadas por el equipo y por lo tanto aseguramos el integro funcionamiento de las mismas

1. LAS RUTAS Y LÍNEAS EN LAS CUALES SE PUEDA TRANSBORDAR

COMANDO 1

RESULTADO 1 Data Output Explain Messages Notifications id_usuario username contraseña email nombre apellido_paterno apellido_materno [PK] integer character varying character varying character varying character varying character varying character varying 1 fbrouncker0 lyePxL8 fbrouncker0@noaa.gov Frankie Benkin Brouncker 2 QeehR1b Brahan 2 masprey1 masprey1@slideshare.... Maddie Asprey 3 3 cbussen2 4CeyTcF0G9Ls cbussen2@cbslocal.co... Carolus McKeggie Bussen KIFlgX 4 5 ividgeon4 ividgeon4@unesco.org Immanuel Craker Vidaeon 5 6 jtwelve5 HFBU8B7mpQT jtwelve5@google.co.uk Akehurst Twelve 6 9 tmcalinden8 72kiqiEG tmcalinden8@scientifi... Tam Wingeat McAlinden 10 drudgerd9 RiHMh6NF3 drudgerd9@un.org Dallon Dowdell Rudgerd

2. USUARIOS QUE PAGAN SU TRANSPORTE CON PAYPAL Y TIENEN EL MISMO APELLIDO PATERNO.

COMANDO 2

SELECT * FROM usuario natural join (SELECT id_usuario FROM paypal INTERSECT
SELECT id_usuario FROM usuario) as ffo;





RESULTADO 2

	id_usuario	username	contraseña	email	nombre	apellido_paterno	apellido_materno
4	[PK] integer	character varying	character varying	character varying	character varying	character varying	character varying
1	1	fbrouncker0	lyePxL8	fbrouncker0@noaa.gov	Frankie	Benkin	Brouncker
2	2	masprey1	QeehR1b	masprey1@slideshare	Maddie	Brahan	Asprey
3	3	cbussen2	4CeyTcF0G9Ls	cbussen2@cbslocal.co	Carolus	McKeggie	Bussen
4	5	ividgeon4	KIFlgX	ividgeon4@unesco.org	Immanuel	Craker	Vidgeon
5	6	jtwelve5	HFBU8B7mpQT	jtwelve5@google.co.uk	Jasmin	Akehurst	Twelve
6	g	tmcalinden8	72kiqiEG	tmcalinden8@scientifi	Tam	Wingeat	McAlinden
7	10	drudgerd9	RiHMh6NF3	drudgerd9@un.org	Dallon	Dowdell	Rudgerd

3. OPERADORES CUYA LICENCIA DE CONDUCIR ESTÉ EXPIRADA

COMANDO 3

```
SELECT * FROM usuario natural join (
(SELECT id_operador FROM operador)

INTERSECT
(SELECT id_operador FROM licencia

WHERE licencia.fecha_expedicion < to_date('2020-09-20', 'YYYY-MM-DD')))
as foo
```

ata Outp	out Explain I	Messages Notification	ons					
4	Id_usuarlo [PK] integer	username character varying	contraseña character varying	email character varying	nombre character varying	apellido_paterno character varying	apellido_materno character varying	Id_operador integer
1	1	fbrouncker0	lyePxL8	fbrouncker0@noaa.gov	Frankie	Benkin	Brouncker	1
2	1	fbrouncker0	lyePxL8	fbrouncker0@noaa.gov	Frankie	Benkin	Brouncker	1
3	1	fbrouncker0	lyePxL8	fbrouncker0@noaa.gov	Frankie	Benkin	Brouncker	
4	1	fbrouncker0	lyePxL8	fbrouncker0@noaa.gov	Frankie	Benkin	Brouncker	2
5	1	fbrouncker0	lyePxL8	fbrouncker0@noaa.gov	Frankie	Benkin	Brouncker	
6	1	fbrouncker0	lyePxL8	fbrouncker0@noaa.gov	Frankie	Benkin	Brouncker	2
7	1	fbrouncker0	lyePxL8	fbrouncker0@noaa.gov	Frankie	Benkin	Brouncker	





4. OPERADORES CON SOBREPESO QUE MANEJAN ALGÚN SISTEMA DE TRASPORTE

COMANDO 4

(SELECT * FROM usuario natural join (

SELECT id_usuario FROM operador natural join(

SELECT id_operador FROM operador

INTERSECT

SELECT id_operador FROM examen_medico

WHERE CAST (examen_medico.peso AS INTEGER) > 100)

as foo) as foo2)

RESULTADO 4

Data (Output Explain	Messages Notific	ations				
4	id_usuarlo [PK] integer	username character varying	contraseña character varying	email character varying	nombre character varying	apellido_paterno character varying	apellido_materno character varying
1	2	masprey1	QeehR1b	masprey1@slideshare	Maddie	Brahan	Asprey
2	3	cbussen2	4CeyTcF0G9Ls	cbussen2@cbslocal.co	Carolus	McKeggie	Bussen
3	4	bgoodrum3	n14zhUI	bgoodrum3@usa.gov	Bibbye	Wing	Goodrum
4	6	jtwelve5	HFBU8B7mpQT	jtwelve5@google.co.uk	Jasmin	Akehurst	Twelve
5	7	dcheales6	2FnjCVh	dcheales6@ezinearticl	Dore	Dawnay	Cheales
6	8	wmcbean7	KcwJevdU9QJG	wmcbean7@topsy.com	Westley	Drable	McBean
7	9	tmcalinden8	72kiqiEG	tmcalinden8@scientifi	Tam	Wingeat	McAlinden

5. LOS TAXIS QUE VAN A ESTAR EN DESUSO PORQUE TIENEN MÁS DE 5 AÑOS EN OPERACIÓN.

COMANDO 5

SELECT * FROM taxi

WHERE

taxi.fecha_inicio < to_date('2020-09-20', 'YYYY-MM-DD')</pre>

Data O	utput Explain	Messages	Notifications		
4	Id_vehiculo [PK] integer	id_sitio integer	fecha_inicio date	capacidad_pasajeros integer	tipo_combustible character varying
1	1	431	2019-06-25	4	Magna
2	2	978	2017-04-01	4	Magna
3	3	307	2012-06-03	4	Magna
4	4	959	2013-07-19	4	Premium
5	5	514	2016-07-05	4	Premium
6	6	952	2016-08-07	4	Magna
7	7	601	2016-07-29	4	Magna





6. Todos los taxis que pertenecen al sitio Stephen

```
COMANDO 6

SELECT * FROM taxi NATURAL JOIN

(SELECT id_sitio FROM sitio

WHERE sitio.nombre = 'Stephen') as foo
```

RESULTADO	6										
	Dat	ta Output	a Output Explain Messages Notifications								
	4	id_sitio integer		id_vehiculo [PK] integer	Ø.	fecha_inicio date	•	capacidad_pasajeros integer	ø.	tipo_combustible character varying	A *
	1		944		208	2013-11-02			4	Magna	
	2		944		250	2017-01-27			4	Magna	
	3		944		300	2010-12-31			4	Magna	
	4		2		396	2014-12-28			4	Magna	

7. LINEAS Y RUTAS QUE TIENEN UNA ESTACION EN COMUN

```
COMANDO 7
      SELECT nombre FROM linea NATURAL JOIN (
       SELECT id_linea FROM pertenece_linea NATURAL JOIN(
       SELECT id_estacion FROM pertenece_linea
       INTERSECT
       SELECT id_estacion FROM pertenece_ruta
       ) as foo
      ) as foo
      UNION
      SELECT nombre FROM ruta NATURAL JOIN (
       SELECT id_ruta FROM pertenece_ruta NATURAL JOIN(
       SELECT id_estacion FROM pertenece_linea
       INTERSECT
       SELECT id_estacion FROM pertenece_ruta
       ) as foo1
      ) as foo2
```





RESULTADO 7 Data Output Explain Messages Notifications nombre character varying 1 Overhold 2 Keylex 3 Quo Lux 4 Cookley 5 Prodder 6 Tresom 7 Vovatouch

8. TODOS LOS OPERADORES QUE MANEJAN LOS DOMINGOS

COMANDO 8

SELECT * FROM operador NATURAL JOIN
 (SELECT id_operador FROM manejar
 WHERE dia = 'Domingo') as foo

Data (Data Output Explain Messages Notifications											
4	id_operador [PK] integer	id_usuario integer	fecha_nacimiento date	genero character varying	estudios character varying	direccion character varying	fecha_ultimo_examen date					
1	58	58	1994-12-19	Male	Senior Financial Analyst	08 Namekagon Hill	2020-07-05					
2	124	124	1952-03-12	Female	Environmental Specialist	9178 Mifflin Trail	2020-06-30					
3	2	2	1984-07-24	Female	Product Engineer	4637 Roth Crossing	2020-04-14					
4	204	204	2020-02-09	Female	Operator	8 Havey Terrace	2020-04-11					
5	185	185	2003-05-05	Female	Sales Representative	77 Glacier Hill Plaza	2020-08-15					
6	84	84	1981-01-24	Female	Recruiting Manager	8635 Hollow Ridge Ave	2020-08-01					
7	240	240	1985-01-14	Male	Systems Administrator I	7444 Porter Terrace	2020-05-21					





9. TROLEBÚS CON MAS DE 2 REPARACIONES

COMANDO 9

```
SELECT * FROM trolebus NATURAL JOIN (
   SELECT id_vehiculo FROM reparar
   GROUP BY id_vehiculo HAVING COUNT(*)>2
) as foo
```

RESULTADO 9

Data	Output Explain	n Message	es Notifications		
4	id_vehiculo [PK] integer	id_ruta integer	fecha_inicio date	capacidad_pasajeros integer	tipo_combustible character varying
1	6	760	2017-03-06	50	Electricidad
2	61	403	2012-11-18	50	Electricidad
3	64	612	2014-10-21	50	Electricidad
4	73	922	2012-05-21	50	Electricidad
5	88	910	2017-11-19	50	Electricidad
6	94	467	2018-12-06	50	Electricidad
7	95	989	2014-11-10	50	Electricidad

10. TODOS LOS USUARIOS QUE SON TAMBIÉN SON CONDUCTORES

COMANDO 10

SELECT * FROM usuario NATURAL JOIN (
SELECT id_usuario FROM operador) as foo

4	id_usuario [PK] integer	username character varying	contraseña character varying	email character varying	nombre character varying	apellido_paterno character varying	apellido_materno character varying
1	1	fbrouncker0	lyePxL8	fbrouncker0@noaa.gov	Frankie	Benkin	Brouncker
2	2	masprey1	QeehR1b	masprey1@slideshare	Maddie	Brahan	Asprey
3	3	cbussen2	4CeyTcF0G9Ls	cbussen2@cbslocal.co	Carolus	McKeggie	Bussen
4	4	bgoodrum3	n14zhUI	bgoodrum3@usa.gov	Bibbye	Wing	Goodrum
5	5	ividgeon4	KIFlgX	ividgeon4@unesco.org	Immanuel	Craker	Vidgeon
6	6	jtwelve5	HFBU8B7mpQT	jtwelve5@google.co.uk	Jasmin	Akehurst	Twelve
7	7	dcheales6	2FnjCVh	dcheales6@ezinearticl	Dore	Dawnay	Cheales

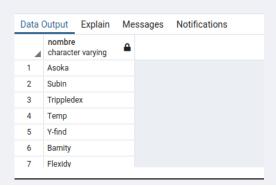




11. CUALES SON LAS RUTAS QUE COMPARTEN AUTOBUSES Y RTP

COMANDO 11 SELECT nombre FROM ruta NATURAL JOIN(SELECT id_ruta FROM rtp INTERSECT SELECT id_ruta FROM autobus) as foo

RESULTADO 11



12. TODOS LOS TAXIS QUE COMENZARON A CIRCULAR DESDE ENERO 2020

COMANDO 12 SELECT * FROM taxi WHERE taxi.fecha_inicio >= to_date('2020-01-01', 'YYYY-MM-DD')

RESULTADO 12 Data Output Explain Messages Notifications id_sitio fecha_inicio capacidad_pasajeros integer capacidad_pasajeros tipo_combustible id_vehiculo [PK] integer character varying 12 700 2020-03-28 4 Magna 473 2020-07-25 3 37 519 2020-05-05 4 Premium 4 39 775 2020-08-28 4 Premium 5 793 2020-01-03 4 Magna 931 2020-04-13 4 Premium 78 280 2020-06-16 4 Magna





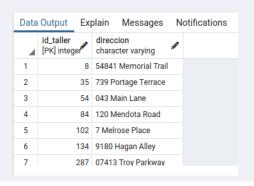
13. LINETODOS LO USUARIOS QUE HAYAN PAGADO CON TARJETA Y CON PAYPAL

COMANDO 13 SELECT * FROM usuario NATURAL JOIN(SELECT id_usuario FROM paypal) as foo

RESULTADO 13 Data Output Explain Messages Notifications contraseña nombre id_usuario username email apellido_paterno apellido_materno [PK] integer character varying character varying character varying character varying character varying character varying 919 rrickerdpi tPmLeQ5 rrickerdpi@de.vu Ricky Whaymand Rickerd 2 843 nmorkhamne 3PadZh7FFZ nmorkhamne@mapqu... Northrup Morkham 3 705 mbasilottajk pvFmkC mbasilottajk@washing... Martie Spelsbury Basilotta 4 E2V15Ea34FmH 454 emainsoncl emainsoncl@usatoday... Caseley Mainson Flonore 5 839 kbachelarna UV9klyG kbachelarna@google.de Kaila Hoovart Bachelar VfKqla1s 779 njellicolm njellicolm@apache.org Mulvey Jellico

14. TODOS LOS TALLERES QUE SU ESPECIALIDAD SEA LA TECNICA HIDRAULICA

COMANDO 14 SELECT * FROM taller NATURAL JOIN(SELECT id_taller FROM especialidad WHERE especialidad.especialidad = 'Hidraulico') as foo







15. Todos los operadores que tienen una licencia tipo D

```
COMANDO 15

SELECT * FROM operador NATURAL JOIN(

SELECT id_operador FROM licencia WHERE tipo = 'D'

) as foo
```

Data	Output Explai	n Messages	Notifications				
4	id_operador [PK] integer	id_usuario integer	fecha_nacimiento date	genero character varying	estudios character varying	direccion character varying	fecha_ultimo_examen date
1	113	113	1966-01-27	Female	Analyst Programmer	87 Village Pass	2020-06-26
2	70	70	1988-08-25	Female	Help Desk Operator	0565 Sunnyside Place	2020-07-27
3	269	269	1971-04-26	Female	Media Manager II	75622 Dovetail Trail	2020-03-14
4	162	162	1985-01-17	Female	Biostatistician II	28481 3rd Avenue	2020-04-29
5	180	180	2005-07-14	Male	Account Representativ	93581 Mandrake Hill	2020-05-20
6	25	25	2018-04-05	Male	Senior Developer	3108 Katie Pass	2020-05-11
7	37	37	1975-01-30	Female	Physical Therapy Assis	118 Arrowood Crossing	2020-08-08