

Laboratorio 2

Modelos y Bases de Datos

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LABORATORIO

B-1

Give the organisers name of the concert in the Assembly Rooms after the first of Feb, 1997.

```
SELECT m_name AS organiser
FROM musician,concert
WHERE concert_venue= 'Assembly_Rooms' AND
con_date>01/02/97 AND concert_organiser = m_no
```

List the names, dates of birth and the instrument played of living musicians who play a instrument which Theo also plays.

```
SELECT m_name, born, instrument
FROM musician,performer
WHERE instrument IN(SELECT DISTINCT instrument
FROM performer,musician
WHERE m_name= 'Theo_Mengel' AND m_no= perf_is)
AND m_no= perf_is
AND died is NULL AND m_name <>'Theo_Mengel'
```

B-2

```
SELECT m_name,born,COALESCE(died, 'VIVO'),born_in,
living_in
FROM musician, performer, plays_in,band
WHERE m_no= perf_is AND perf_no= player AND
band_id= band_no
GROUP BY m_name,born,died,born_in,living_in
HAVING(COUNT(band_no))>1
ORDER BY COUNT(band_no) DESC
```

```
SELECT place_country,COUNT(band_no) as c
FROM place,band
WHERE band_home = place_no
GROUP BY place_country
HAVING COUNT(band_no) > (SELECT AVG(t1)
FROM (SELECT COUNT(band_no) as t1
FROM band,place
WHERE band_home = place_no
GROUP BY place_country) as b1)
ORDER BY place_country
```

```
SELECT m1.m_name, m2.m_name,p1.instrument
FROM musician m1,musician m2,performer p1,performer p2
WHERE m1.m_no<>m2.m_no AND p1.instrument=p2.instrument
```

```
SELECT m_name,
CASE
WHEN died IS NULL
THEN YEAR(now()) - YEAR(born)
ELSE YEAR(died)-YEAR(born)
END,
CASE
WHEN died IS NULL
THEN 'Vivo'
ELSE 'Muerto'
END
FROM musician
```

```
SELECT DISTINCT m_name AS Nombre,
CASE
WHEN m_name IN (SELECT m_name AS compositor
FROM composer JOIN musician
ON m_no=comp_is)
THEN 'Si'
ELSE 'No'
END
AS Compositor,
CASE
WHEN m_name IN(SELECT m_name AS interprete
FROM performer JOIN musician
ON m_no= perf_is)
THEN 'Si'
ELSE 'No'
END
AS Interprete,
CASE
WHEN m_name IN(SELECT m_name AS organizador
FROM concert JOIN musician
ON m_no= concert_organiser)
THEN 'Si'
ELSE 'No'
END
AS Organizador,
CASE
WHEN m_name IN(SELECT m_name AS director
FROM performance JOIN musician
ON m_no=conducted_by)
THEN 'Si'
ELSE 'No'
END
AS Director
FROM musician
```

B-3

Que musicos que representan a una banda viven el mismo lugar donde esta la banda

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```
SELECT m_name, place_town
FROM musician ,place ,band
WHERE m_no= band_contact AND
band_home= place_no AND band_home= living_in
```

4

B-1

Jeff Dawn plays in a band with someone who plays in a band with Sue Little. Who is it and what are the bands?

```
SELECT re AS Name,band_name AS 'Jeff''s_band',
n AS 'Sue''s_band'
FROM
(SELECT DISTINCT m_name AS re ,band_name
FROM band ,place ,musician ,performer ,plays_in
WHERE perf_is=m_no AND player= perf_no
AND band_id= band_no AND
band_name IN (SELECT band_name
FROM band ,place ,musician ,performer ,
plays_in
WHERE perf_is=m_no AND player= perf_no
AND band_id= band_no AND m_name = 'Jeff_Dawn'))
AS X
RIGHT OUTER JOIN
(SELECT DISTINCT m_name,band_name AS n
FROM band ,place ,musician ,performer ,plays_in
WHERE perf_is=m_no AND player= perf_no
AND band_id= band_no AND
band_name IN (SELECT band_name
FROM band ,place ,musician ,performer ,plays_in
WHERE perf_is=m_no AND player= perf_no AND
band_id= band_no AND m_name = 'Sue_Little'))
AS Y
ON re=m_name
WHERE re IS NOT NULL
```

```
SELECT 'BORN_IN', m_name
FROM musician ,place
WHERE (born_in = place_no) AND place_town= 'Glasgow'
```

UNION ALL

```
SELECT 'LIVES_IN',m_name
FROM musician ,place
WHERE (living_in= place_no ) AND place_town= 'Glasgow'
```

UNION ALL

```
SELECT 'IN_BAND_IN',m_name
FROM band ,place ,musician ,performer ,plays_in
WHERE band_home= place_no AND place_town= 'Glasgow'
AND band_id= band_no
AND player= perf_no AND perf_is=m_no
ORDER BY m_name
```

B-2

```
SELECT m_name
FROM musician ,concert
WHERE died IS NOT NULL AND m_no=concert_organiser
```

```
SELECT DISTINCT m_name
FROM musician ,concert ,place ,performer ,
plays_in ,band ,performance
WHERE born_in = concert_in AND m_no=perf_is
AND perf_no = player AND band_id = band_no
AND band_no = gave AND performed_in = concert_no
```

3.No se pudo hacer por que no se encontro que relaciones asociar

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```
SELECT DISTINCT concert_venue
FROM place ,composition ,concert ,performance
WHERE concert_in=c_in AND c_no=performed
AND performed_in = concert_no
```

B-3

Que composicion fue tocada en el concierto y quien organizo el concierto

```
SELECT c_title AS composicion ,concert_organiser
AS organizador
FROM composition ,performance ,concert
WHERE c_no=performed AND concert_no=performed_in
```

RETROSPECTIVA

- Cuál fue el tiempo total invertido en el laboratorio por cada uno de ustedes?
(Horas/Hombre)
Ana María Rincn: 24 horas
John David Ibáez: 24 horas
- Cuál es el estado actual del laboratorio? Por qué?
Parcialmente hicieron falta consultas de SQL del punto 4(3,4) que no se supo como hacerlas
- Cuál consideran fue el mayor logro? Por qué?
Terminar el laboratorio, ya que es de gran satisfaccin y adems aprendimos muchas cosas.
- Cuál consideran que fue el mayor problema técnico? Qué hicieron para resolverlo?
El tiempo, para esto organizamos horarios y trabajamos de forma virtual igualmente
- Qué hicieron bien como equipo? Qué se comprometen a hacer para mejorar los resultados?
Como equipo realizamos todo en duo tanto los trabajos de astha como los codigos de SQL que se nos pedia, realizar todo con tiempo para no estar presionado en cuanto tiempo