**PARTE UNO**

1. **Modelo conceptual**
2. Dimos la orientación correcta de lectura de conceptos y relaciones con flechas.
3. En musicians.asta, 0.General/Conceptos
4. **Modelo lógico**
5. Se realizó el diagrama en Astah, ya que se había realizado previamente en una imagen, la cual no tenía flexibilidad a la hora de editar.
6. En musicians.asta, 0. General/Logico

**PARTE TRES**

1. **Modelo conceptual. Conceptos**
2. En musicians.asta, 1. Ciclo Uno/1. Conceptual/Conceptos
3. **Modelo conceptual. Funciones**
4. En musicians.asta, 1. Ciclo Uno/1. Conceptual/Funciones
5. **Modelo conceptual. Consultas**

* *Give the band name, conductor and contact of the bands performing at the most recent concert in the Royal Albert Hall.*

SELECT band\_name, conductor, contact

FROM (SELECT concert\_no, band\_name, con\_date

FROM concert, performance, band

WHERE concert\_venue = 'Royal Albert Hall' AND

concert\_no = performed\_in AND

gave = band\_no) AS a

JOIN

(SELECT concert\_no, m\_name AS conductor, con\_date

FROM musician, concert

WHERE concert\_venue = 'Royal Albert Hall' AND

concert\_orgniser = m\_no) AS b

ON (a.concert\_no = b.concert\_no AND

a.con\_date = b.con\_date AND

b.con\_date = (SELECT MAX(con\_date)

FROM concert

WHERE concert\_venue = 'Royal Albert Hall'))

JOIN

(SELECT concert\_no, m\_name AS contact, con\_date

FROM musician, band, concert, performance

WHERE concert\_venue = 'Royal Albert Hall' AND

concert\_no = performed\_in AND

gave = band\_no AND

band\_contact = m\_no) as c

ON (b.concert\_no = c.concert\_no AND

b.con\_date = c.con\_date AND

c.con\_date = (SELECT MAX(con\_date)

FROM concert

WHERE concert\_venue = 'Royal Albert Hall'))

* *List the different instruments played by the musicians and avg number of musicians who play the instrument.*

SELECT instrument, COUNT(perf\_is) AS interpreters

FROM performer

GROUP BY instrument



* *Número de bandas de cada país*

SELECT place\_country,

COUNT(band\_name)

FROM band JOIN place ON (band\_home = place\_no)

GROUP BY place\_country

ORDER BY 1

* *Número de músicos que toca cada uno de los instrumentos*

SELECT instrument,

COUNT(perf\_no)

FROM performer

GROUP BY instrument

ORDER BY 2 DESC

* *Países que más músicos tienen*

SELECT place\_country, COUNT(m\_no)

FROM musician JOIN place ON (living\_in = place\_no)

GROUP BY 1

ORDER BY 1

* *Posibles dúos que tocan diferentes instrumentos*

SELECT m1.m\_name,

m2.m\_name,

p1.instrument,

p2.instrument

FROM performer p1 JOIN performer p2 ON (p1.instrument != p2.instrument

AND p1.perf\_is != p2.perf\_is)

JOIN musician m1 ON (p1.perf\_is = m1.m\_no)

JOIN musician m2 ON (p2.perf\_is = m2.m\_no)

ORDER BY 1, 2, 3, 4

* *Roles de los músicos*

SELECT DISTINCT m\_name,

CASE WHEN comp\_is IS NULL THEN '-'

ELSE 'Composer'

END,

CASE WHEN perf\_is IS NULL THEN '-'

ELSE 'Performer'

END,

CASE WHEN conducted\_by IS NULL THEN '-'

ELSE 'Director'

END,

CASE WHEN concert\_orgniser IS NULL THEN '-'

ELSE 'Organizer'

END

FROM musician LEFT JOIN composer ON (m\_no = comp\_is)

LEFT JOIN performer ON (m\_no = perf\_is)

LEFT JOIN performance ON (m\_no = conducted\_by)

LEFT JOIN concert ON (m\_no = concert\_orgniser)



*Enlistar cada músico, decir si es intérprete, decir si es compositor y a que banda pertenece*

SELECT DISTINCT m\_name,

CASE WHEN comp\_is IS NULL THEN '-'

ELSE 'Composer'

END,

CASE WHEN perf\_is IS NULL THEN '-'

ELSE 'Performer'

END,

CASE WHEN band\_name IS NULL THEN '-'

ELSE band\_name

END

FROM musician LEFT JOIN composer ON (m\_no = comp\_is)

LEFT JOIN performer ON (m\_no = perf\_is)

LEFT JOIN plays\_in ON (perf\_no = player)

LEFT JOIN band ON (band\_id = band\_no)

1. **Modelo lógico**
2. En musicians.asta, 1. Ciclo Uno/2. Logicio/Logico

**PARTE CUATRO**

1. **Modelo conceptual. Conceptos**
2. En musicians.asta, 2. Ciclo Dos/1. Conceptual/Conceptos
3. **Modelo conceptual. Funciones**
4. En musicians.asta, 2. Ciclo Dos/1. Conceptual/Funciones
5. **Modelo conceptual. Consultas**

* *List the name and town of birth of any performer born in the same city as James First.*

SELECT DISTINCT m\_name, place\_town

FROM performer, musician, place

WHERE perf\_is = m\_no AND

born\_in = place\_no AND

place\_town = (SELECT place\_town

FROM musician, place

WHERE place\_no = born\_in AND

m\_name = 'James First')

* *Give the organiser's name of the concert in the Assembly Rooms after the first of Feb, 1997.*

SELECT m\_name

FROM musician, concert

WHERE concert\_venue = 'Assembly Rooms' AND

concert\_orgniser = m\_no



* *Conciertos en que hayan participado músicos que ya murieron*

SELECT CONCAT(concert\_venue, ', ', con\_date), m\_name

FROM musician JOIN performer ON (m\_no = perf\_is)

JOIN plays\_in ON (perf\_no = player)

JOIN band ON (band\_id = band\_no)

JOIN concert ON (band\_home = concert\_in)

WHERE died IS NOT NULL

* *Nombre de los compositores que interpretan sus canciones*

SELECT c\_title, m\_name, instrument

FROM musician JOIN performer ON (m\_no = perf\_is)

JOIN plays\_in ON (perf\_no = player)

JOIN band ON (band\_id = band\_no)

JOIN performance ON (band\_no = gave)

JOIN composition ON (c\_no = performed)

JOIN has\_composed ON (c\_no = cmpn\_no)

JOIN composer ON (cmpr\_no = comp\_no)

WHERE comp\_is = perf\_is

* *Las cinco canciones que más se han interpretado en los conciertos dados*

SELECT c\_title, COUNT(performed), MIN(con\_date), MAX(con\_date)

FROM performance JOIN composition ON (performed = c\_no)

JOIN concert ON(performed\_in = concert\_no)

GROUP BY c\_title

ORDER BY 2 DESC

LIMIT 5

* *El compositor líder de los conciertos*

SELECT CONCAT(concert\_venue, ', ', con\_date), m\_name, COUNT(performed)

FROM musician JOIN composer ON (m\_no = comp\_is)

JOIN has\_composed ON (comp\_no = cmpr\_no)

JOIN composition ON (cmpn\_no = c\_no)

JOIN performance ON (c\_no = performed)

JOIN concert ON (performed\_in = concert\_no)

GROUP BY 1, 2

* *Conciertos con canciones compuestas en el mismo país del evento*

SELECT CONCAT(concert\_venue, ', ', con\_date), c\_title, place\_country

FROM concert JOIN performance ON (concert\_no = performed\_in)

JOIN composition ON (performed = c\_no)

JOIN place ON (concert\_in = place\_no)

WHERE c\_in = concert\_in



*Enlistar las composiciones, y los conciertos en donde han sido interpretadas*

SELECT c\_title, CONCAT(concert\_venue, ', ', con\_date)

FROM composition JOIN performance ON (c\_no = performed)

JOIN concert ON (performed\_in = concert\_no)

1. **Modelo lógico**
2. En musicians.asta, 2. Ciclo Dos/2. Logicio/Logico

**RETROSPECTIVA**

1. ¿Cuál fue el tiempo total invertido en el laboratorio por cada uno de ustedes? (Horas/Hombre)

10 horas, 5 por persona.

2. ¿Cuál es el estado actual del laboratorio? ¿Por qué?

El proyecto fue finalizado con éxito, esta vez solo se nos hicieron complicados algunos puntos, pero se pudieron resolver exitosamente.

3. ¿Cuál consideran fue el mayor logro? ¿Por qué?

El mayor logro fue poder terminarlo más rápido y con menos dificultad, ya que eso significa que nos está sirviendo mucho las clases y que estamos entendiendo más el tema.

4. ¿Cuál consideran que fue el mayor problema técnico? ¿Qué hicieron para resolverlo?

El mayor problema para nosotros fue entender algunos problemas, lo que hicimos fue leerlo varias veces hasta entender bien el problema.

5. ¿Qué hicieron bien como equipo? ¿Qué se comprometen a hacer para mejorar los resultados?

Fue que hicimos los 2 al tiempo la mayor parte del proyecto, nos comprometemos a trabajar más tiempo juntos los laboratorios para poder hacer todo el proyecto juntos.