**MODELOS Y BASES DE DATOS**

**SQL Básico**

**2019-2**

**Laboratorio 02**

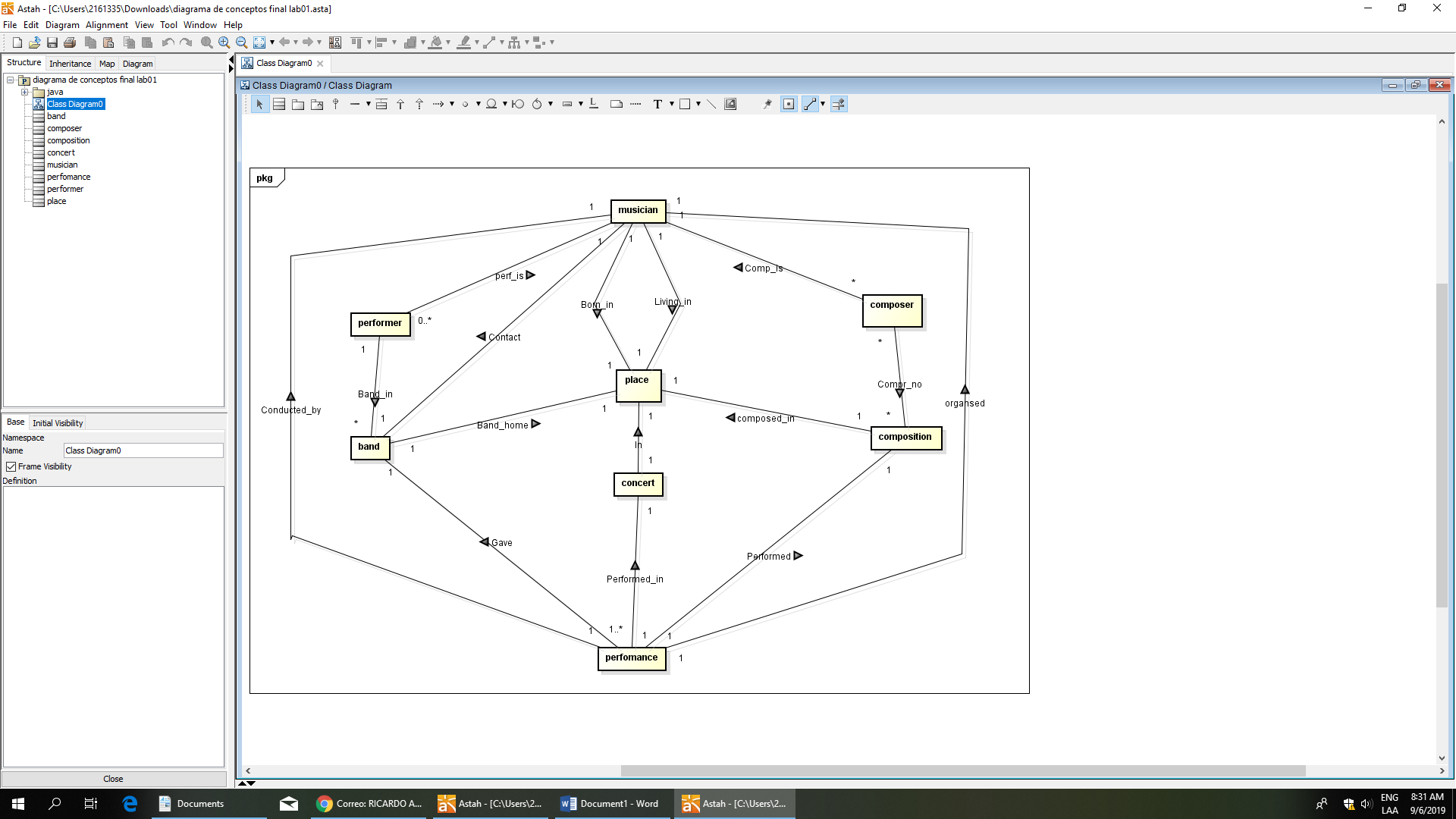
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**PARTE UNO. Refactorización**

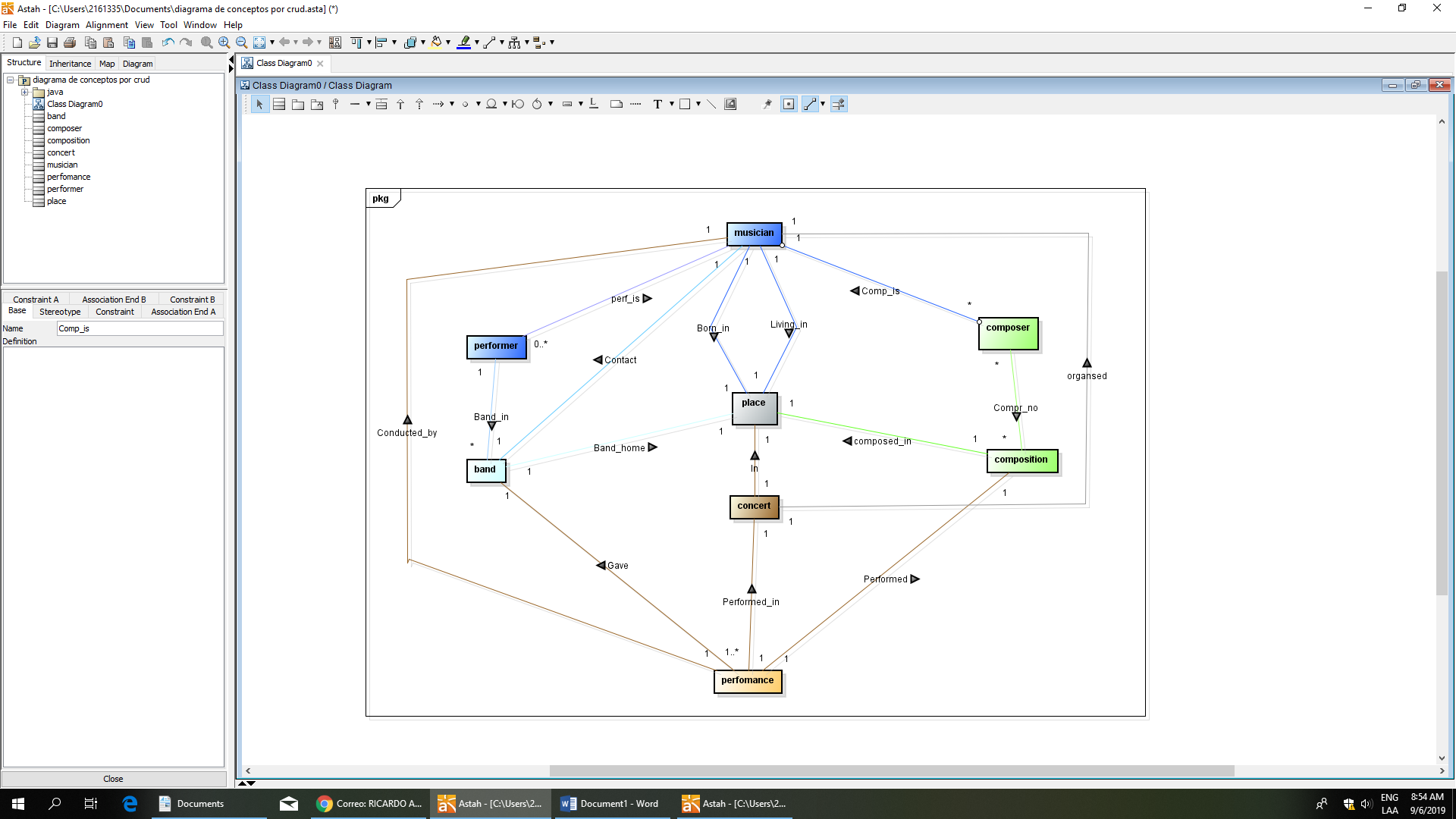
**A. Modelo conceptual**

**1) Revisen su modelo conceptual y perfecciónenlo. ¿Cuáles fueron los cambios realizados?**

Se realizaron los cambios pertinentes que el monitor sugirió, se agregaron los conceptos que hacian falta y la multiplicidad en las relaciones

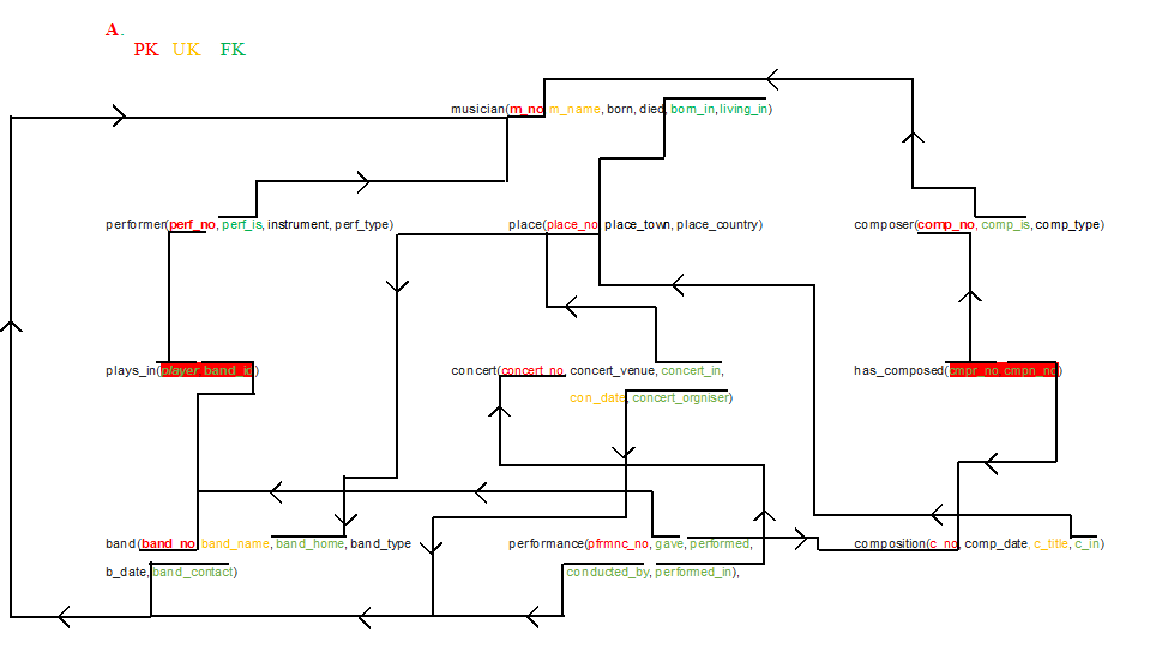


**2) Señalen los grandes conceptos con colores diferentes (CRUD : Conceptos + Relaciones)**

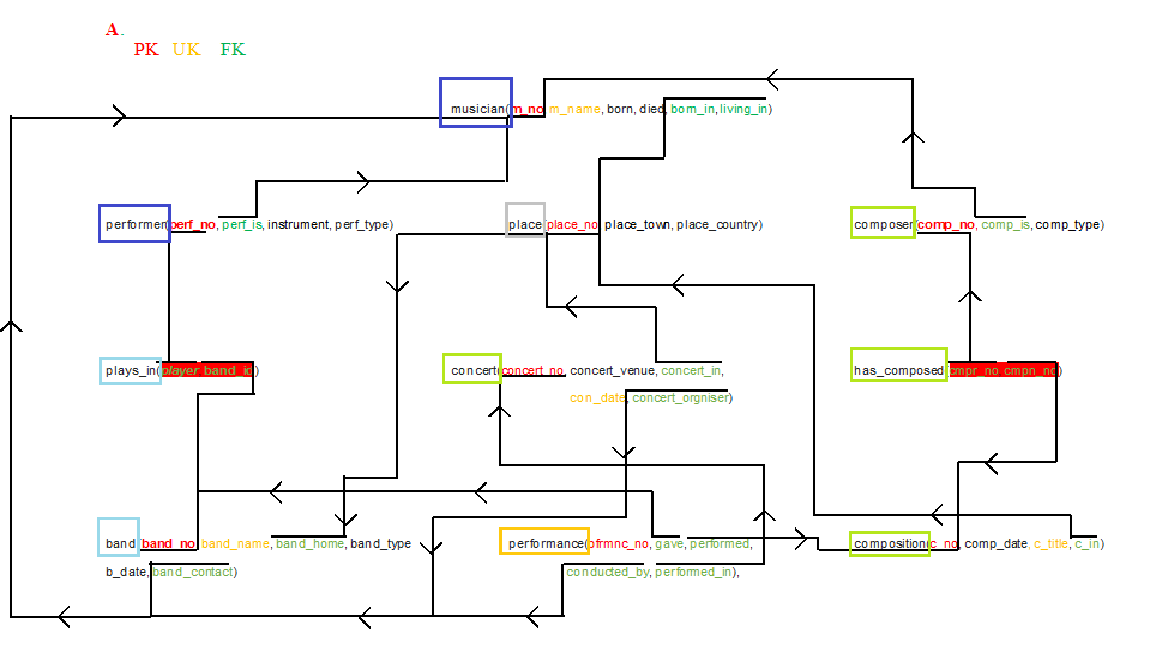


**B. Modelo lógico**

**1) Revisen su modelo lógico y perfecciónenlo. ¿Cuáles fueron los cambios realizados?**

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No se realizaron cambios en el modelo logico

**2) Señalen los grandes conceptos con colores diferentes (CRUD : Tablas)**

**PARTE TRES.**

**C. Modelo conceptual. Consultas. (¿qué ofrece?)**

**• El número de bandas de cada uno de los países. [país, bandas] (Ordenado alfabéticamente)**

SELECT place\_country , (count(band\_name)) AS bands FROM band

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

GROUP BY place\_country

**• El número de músicos que toca cada uno de los instrumentos. [instrumento, número] (Ordenado de mayor a menor)**

SELECT instrument, (count(m\_name)) AS musicos FROM musician

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

GROUP BY instrument

**• Países que más músicos tienen ordenados alfabéticamente. [país ,número] (Mayor que el promedio)**

SELECT place\_country , (count(m\_name)) AS musicos FROM musician

RIGHT JOIN place ON (place\_no=m\_no)

GROUP BY place\_country

HAVING COUNT(m\_name) > 9/5

**• Posibles dúos que tocan diferentes instrumentos [Los dos nombres y los dos instrumentos] (Ordenamos alfabéticamente)**

SELECT A.m\_name, B.m\_name, A.instrument, B.instrument FROM

(SELECT \* FROM performer JOIN musician ON (perf\_is=m\_no)) AS A,

(SELECT \* FROM performer JOIN musician ON (perf\_is=m\_no)) AS B

JOIN plays\_in ON perf\_no=player

JOIN band ON band\_no=band\_id

WHERE A.m\_name <> B.m\_name

ORDER BY A.m\_name, B.m\_name

**• Los roles de los músicos. [Nombre y roles] (Compositor, interprete, director, organizador]**

SELECT DISTINCT m\_name,(case when perf\_is is not null and band\_contact is not null and comp\_is is not null and concert\_orgniser is not null then 'All'

WHEN perf\_is is null and band\_contact is null and comp\_is is null and concert\_orgniser is null then 'None'

WHEN perf\_is is not null and band\_contact is null and comp\_is is null and concert\_orgniser is null then 'Performer'

WHEN perf\_is is not null and band\_contact is not null and comp\_is is null and concert\_orgniser is null then 'Performer, Director'

WHEN perf\_is is not null and band\_contact is null and comp\_is is not null and concert\_orgniser is null then 'Performer, Composer'

WHEN perf\_is is not null and band\_contact is null and comp\_is is null and concert\_orgniser is not null then 'Performer, Organizer'

WHEN perf\_is is not null and band\_contact is not null and comp\_is is not null and concert\_orgniser is null then 'Performer, Director, Composer '

WHEN perf\_is is not null and band\_contact is null and comp\_is is not null and concert\_orgniser is not null then 'Performer, Composer, Organizer'

WHEN perf\_is is not null and band\_contact is not null and comp\_is is null and concert\_orgniser is not null then 'Performer, Director, Organizer'

WHEN perf\_is is null and band\_contact is not null and comp\_is is null and concert\_orgniser is null then 'Director'

WHEN perf\_is is null and band\_contact is not null and comp\_is is not null and concert\_orgniser is null then 'Director, Composer '

WHEN perf\_is is null and band\_contact is not null and comp\_is is null and concert\_orgniser is not null then 'Director, Organizer'

WHEN perf\_is is null and band\_contact is not null and comp\_is is not null and concert\_orgniser is not null then 'Director, Composer, Organizer'

WHEN perf\_is is null and band\_contact is null and comp\_is is not null and concert\_orgniser is null then ' Composer'

WHEN perf\_is is null and band\_contact is null and comp\_is is not null and concert\_orgniser is not null then 'Composer, Organizer '

when perf\_is is null and band\_contact is null and comp\_is is null and concert\_orgniser is not null then 'Organizer' end ) as role from musician

left join performer on perf\_is=m\_no

left join composer on comp\_is=m\_no

left join band on band\_contact=m\_no

left join concert on concert\_orgniser=m\_no

**PARTE CUATRO. Ciclo dos**

**• Conciertos en que hayan participado músicos que ya murieron.[Concierto, músico] (NOTA: Concierto es lugar + fecha)**

SELECT m\_name,concert\_venue,con\_date FROM concert,musician

WHERE died IS NOT NULL

**• Nombre de los compositores que interpretan sus canciones. [Canción, músico, instrumento]**

No se logro realizer

**•** **Los cinco canciones que más se han interpretado en los conciertos dados. [Canción, veces, fecha primera interpretación, fecha última interpretación]**

SELECT c\_title,COUNT(concert\_venue),MIN(con\_date),MAX(con\_date) FROM composition

JOIN performance ON performed = c\_no

JOIN concert ON concert\_no = performed\_in

GROUP BY c\_title

HAVING MIN(con\_date) != MAX(con\_date)

**• El compositor líder de los conciertos. (El compositor líder de un concierto es la que compuso el mayor**

**número de canciones del concierto ).**

SELECT m\_name FROM musician

JOIN composer ON comp\_is = m\_no

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

JOIN composition ON c\_no = cmpn\_no

JOIN performance ON performed = c\_no

JOIN concert ON concert\_no = performed\_in

GROUP BY m\_name

**• Conciertos con canciones compuestas en el mismo país del evento. [Concierto, cancion, país]**

SELECT concert\_venue,c\_title,place\_country FROM place

JOIN concert ON concert\_in = place\_no

JOIN performance ON concert\_no = performed\_in

JOIN composition ON c\_no = performed

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

JOIN composer ON cmpr\_no = comp\_no

JOIN musician ON comp\_is = m\_no

WHERE c\_in = concert\_in