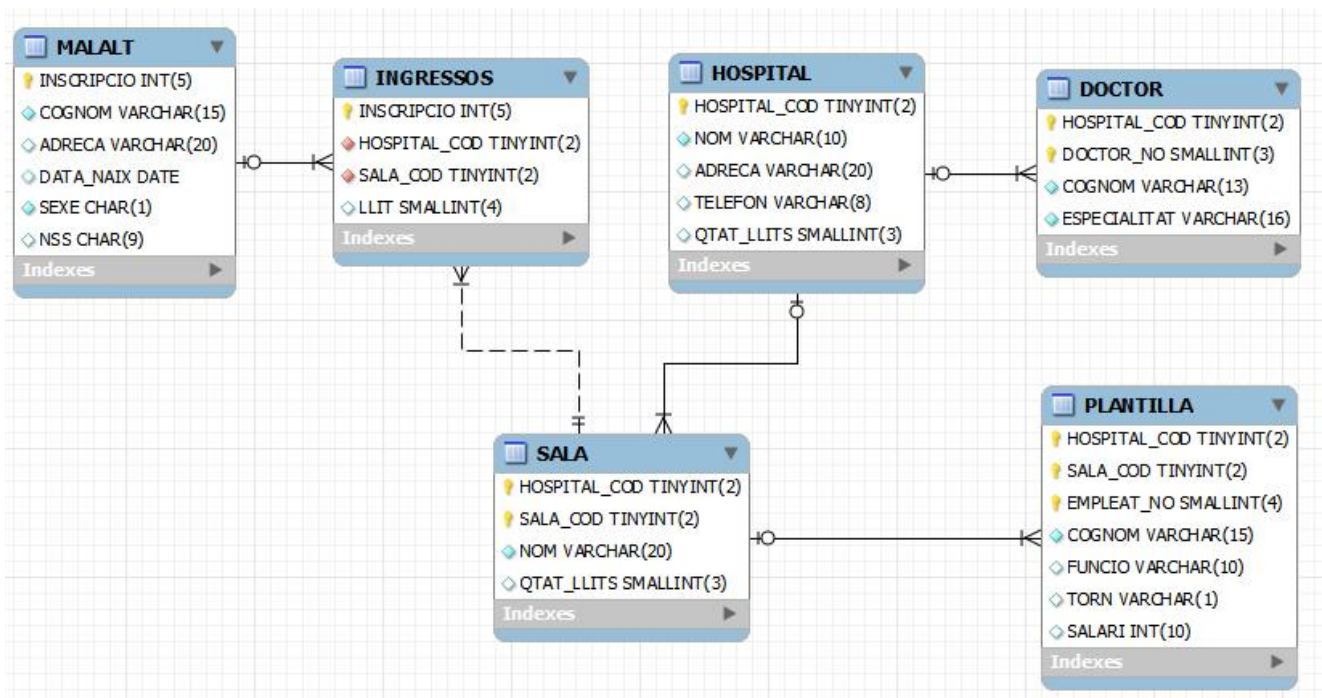




Exercici 5. Consultes complexes + subconsultes

L'objectiu d'aquesta activitat és practicar amb tota la potència de la sentència SELECT. Dissenyeu les instruccions SQL adequades per donar resposta a les sol·licituds següents referents a l'esquema:



Importeu l'script **sanitatUTF8.sql** (adjunt al Moodle) al vostre DBMS. Utilitzant la BBDD 'sanitat' fes les següents consultes per línia de comandes. Adjunta captura i SQL en text:

- Mostra, per cada sala, la quantitat de malalts de cada sexe.

```
MariaDB [sanitat]> SELECT hospital.nom AS Hospital, sala.nom AS Sala, malalt.sexe AS Sexe, COUNT(malalt.sexe) AS "Cantidad Malalts"
-> FROM hospital
-> INNER JOIN ingressos ON hospital.hospital_cod = ingressos.hospital_cod
-> INNER JOIN sala ON ingressos.sala_cod = sala.sala_cod
-> INNER JOIN malalt ON ingressos.inscripcio = malalt.inscripcio
-> GROUP BY hospital.nom, sala.nom, malalt.sexe;

+-----+-----+-----+-----+
| Hospital | Sala | Sexe | Cantidad Malalts |
+-----+-----+-----+-----+
| General | Cardiologia | D | 2 |
| General | Cardiologia | H | 2 |
| La Paz | Maternitat | D | 2 |
| La Paz | Psiqui?tric | D | 2 |
| La Paz | Psiqui?tric | H | 4 |
| Provincial | Cures Intenses | D | 4 |
| Provincial | Cures Intenses | H | 2 |
+-----+-----+-----+-----+
7 rows in set (0.001 sec)
```



DAM. M02 BASES DE DADES. UF2 - Llenguatges SQL: DML i DDL

SELECT hospital.nom AS Hospital, sala.nom AS Sala, malalt.sexe AS Sexe, COUNT(malalt.sexe)
AS "Cantidad Malalts"

FROM hospital

INNER JOIN ingressos ON hospital.hospital_cod = ingressos.hospital_cod

INNER JOIN sala ON ingressos.sala_cod = sala.sala_cod

INNER JOIN malalt ON ingressos.inscripcio = malalt.inscripcio

GROUP BY hospital.nom, sala.nom, malalt.sexe;

2. Mostra els malalts del sistema hospitalari no ingressats en l'actualitat.

```
MariaDB [sanitat]> SELECT malalt.cognom AS cognom_malalt  
-> FROM malalt  
-> WHERE malalt.inscripcio NOT IN (SELECT inscripcio FROM ingressos);  
+-----+  
| cognom_malalt |  
+-----+  
| Ben?tez E.    |  
+-----+  
1 row in set (0.001 sec)
```

SELECT malalt.cognom AS cognom_malalt

FROM malalt

WHERE malalt.inscripcio NOT IN (SELECT inscripcio FROM ingressos);

3. Mostra el rànquing d'hospitals segons la proporció de llits per treballador.

```
MariaDB [sanitat]> SELECT hospital.nom AS NOM, hospital.qtat_llits AS LLIT, COUNT(plantilla.cognom) AS NUM_TREBALLADOR, ROUND(hospital.qtat_llits / COUNT(pl  
antilla.cognom), 0) AS PRO_LLITS_PER_TREB  
-> FROM hospital INNER JOIN plantilla  
-> ON hospital.hospital_cod = plantilla.hospital_cod  
-> GROUP BY hospital.nom, hospital.qtat_llits  
-> ORDER BY PRO_LLITS_PER_TREB DESC;  
+-----+-----+-----+-----+  
| NOM      | LLIT | NUM_TREBALLADOR | PRO_LLITS_PER_TREB |  
+-----+-----+-----+-----+  
| General  | 63   | 1               | 63                 |  
| San Carlos | 92   | 2               | 46                 |  
| Provincial | 88   | 2               | 44                 |  
| La Paz   | 162  | 5               | 32                 |  
+-----+-----+-----+-----+  
4 rows in set (0.000 sec)
```

SELECT hospital.nom AS NOM, hospital.qtat_llits AS LLIT, COUNT(plantilla.cognom) AS
NUM_TREBALLADOR, ROUND(hospital.qtat_llits / COUNT(plantilla.cognom), 0) AS
PRO_LLITS_PER_TREB



FROM hospital INNER JOIN plantilla

ON hospital.hospital_cod = plantilla.hospital_cod

GROUP BY hospital.nom, hospital.qtat_llits

ORDER BY PRO_LLITS_PER_TREB DESC;

4. Mostra els hospitals on no hi ha cap doctor de cardiologia.

```
MariaDB [sanitat]> SELECT DISTINCT hospital.nom AS Hospital
-> FROM hospital INNER JOIN doctor
-> ON hospital.hospital_cod = doctor.hospital_cod
-> WHERE doctor.especialitat NOT IN(SELECT especialitat FROM doctor WHERE especialitat = "cardiologia");
+-----+
| Hospital |
+-----+
| General  |
| La Paz   |
| San Carlos |
+-----+
3 rows in set (0.001 sec)
```

SELECT DISTINCT hospital.nom AS Hospital

FROM hospital INNER JOIN doctor

ON hospital.hospital_cod = doctor.hospital_cod

WHERE doctor.especialitat NOT IN(SELECT especialitat FROM doctor WHERE especialitat="cardiologia");