ROOM:

1.1) SELECT a.roomNum as room, a.patient, b.admitDate FROM room a, admitInstance b WHERE a.patient = b.patient AND a.patient IS NOT NULL GROUP BY a.roomNum;

1.2) SELECT roomNum as open\_rooms FROM room WHERE patient IS NULL;

1.3) SELECT rm.roomNum as room, ad.patient, ad.admitDate FROM room AS rm LEFT JOIN admitInstance AS ad ON rm.patient = ad.patient GROUP BY rm.roomNum;

PATIENT:

2.1) SELECT \* FROM patient;

2.2) SELECT a.patientID, b.patient FROM patient a, admitInstance b WHERE a.lastName = b.patient AND b.releaseDate IS NULL;

2.3) SELECT a.patientID, b.patient FROM patient a, admitInstance b WHERE a.lastName = b.patient AND b.releaseDate > ‘INSERT DATE' AND b.releaseDate < 'INSERT DATE' GROUP BY b.patient;

\*\*\*will have to insert date range\*\*\*

2.4) SELECT a.patientID, b.patient FROM patient a, admitInstance b WHERE a.lastName = b.patient AND admitDate > 'INSERT DATE' AND admitDate < 'INSERT DATE' GROUP BY b.patient;

\*\*\*will have to insert date range\*\*\*

2.5) SELECT patient, admitID, currentDiagnosis as diagnosis, admitDate, admitDoctor, releaseDate FROM admitInstance WHERE patient = 'INSERT PATIENT';

\*\*\*will have to insert patient\*\*\*

2.6) SELECT patient, treatmentName, admitInstance, treatmentID FROM treatment WHERE patient = 'INSERT PATIENT' ORDER BY admitInstance DESC, treatmentID ASC;

\*\*\*will have to insert patient\*\*\*

2.7) SELECT a.patientID, b.patient, b.currentDiagnosis, b.admitDoctor FROM patient a, (SELECT admitInstance.patient, currentDiagnosis, admitDoctor FROM admitInstance INNER JOIN (SELECT patient, MAX(JULIANDAY(releaseDate), '+ 30 days') AS maxval FROM admitInstance GROUP BY patient) AS maxrel on admitInstance.patient = maxrel.patient WHERE admitInstance.releaseDate IS NULL AND maxval IS NOT NULL) b WHERE a.lastName = b.patient;

2.8) SELECT a.patient, COUNT(DISTINCT a.admitDate) as TotalAdmissions, avg(JULIANDAY(a.releaseDate) - JULIANDAY(a.admitDate)) as avgDuration, MAX(JULIANDAY(a.admitDate) - JULIANDAY(b.priorAdmitDate)) as MaxSpan, MIN(JULIANDAY(a.admitDate) - JULIANDAY(b.priorAdmitDate)) as MinSpan, avg(JULIANDAY(a.admitDate) - JULIANDAY(b.priorAdmitDate)) AvgSpan FROM admitInstance a, (select a.patient,a.admitDate, (select MAX(b.admitDate) from admitInstance as b where b.admitDate < a.admitDate and a.patient = b.patient) as priorAdmitDate from admitInstance as a order by a.patient ASC, a.admitDate ASC) b WHERE a.patient = b.patient GROUP BY a.patient;

DIAGNOSIS AND TREATMENT:

3.1) SELECT diagnosisID, currentDiagnosis as diagnosis, COUNT(currentDiagnosis) as totalCount FROM admitInstance GROUP BY currentDiagnosis HAVING COUNT(currentDiagnosis > 4) ORDER BY currentDiagnosis DESC;

3.2) SELECT diagnosisID, currentDiagnosis as diagnosis, COUNT(currentDiagnosis) as totalCount FROM admitInstance GROUP BY currentDiagnosis HAVING COUNT(currentDiagnosis > 4) ORDER BY currentDiagnosis DESC;

3.3) SELECT a.treatmentID, a.treatmentName, COUNT(a.treatmentName) as totalCount FROM treatment a, admitInstance b WHERE a.patient = b.patient AND b.releaseDate IS NULL GROUP BY treatmentName ORDER BY treatmentName;

3.4) SELECT currentDiagnosis as diagnosis FROM admitInstance GROUP BY currentDiagnosis HAVING COUNT(admitDate) > 5 ORDER BY currentDiagnosis DESC;

<<<not sure what makes it high admit -assuming 5

3.5) SELECT treatmentName, patient, orderedBy FROM treatment;

EMPLOYEE INFORMATION:

4.1) SELECT \* FROM person WHERE type != 'P' ORDER BY lastName ASC, firstName ASC;

4.2) SELECT a.admitDoctor as Doctor FROM admitInstance a, (SELECT patient, admitDate, LAG(admitDate, 3,0) OVER (PARTITION BY patient ORDER BY admitDate) as admitFour FROM admitInstance) b WHERE a.patient = b.patient AND(a.admitDate - admitFour) <= 365 AND admitFour > 1 GROUP BY a.admitDoctor;

4.3) SELECT admitDoctor, currentDiagnosis as diagnosis, COUNT(currentDiagnosis) as totalCount FROM admitInstance WHERE admitDoctor = INSERT DOCTOR GROUP BY currentDiagnosis ORDER BY admitDate DESC;

\*\*will have to insert doctorName\*\*

4.4) SELECT orderedBy, treatmentName, COUNT(treatmentName) as totalCount FROM treatment WHERE orderedBy = INSERT DOCTOR GROUP BY treatmentName ORDER BY treatmentDate DESC;

\*\*\*will have to insert doctorName\*\*\*

4.5) SELECT DISTINCT a.patient, b.orderedBy, b.performedBy FROM admitInstance a, treatment b WHERE a.patient = b.patient AND a.releaseDate IS NULL;