/\*

List all departments in the system sorted alphabetically by the department's name.

Table needed: departments.

Your result set should have five rows.

\*/

SELECT department\_nm

FROM [edw\_emr\_ods].[departments]

ORDER BY [department\_nm]

/\*

List the two oldest patients showing a patient's name and date of birth.

Table needed: patients.

Your result set should have two rows.

\*/

SELECT TOP 2 [patient\_nm],[dob]

FROM [edw\_emr\_ods].[patients]

ORDER BY [dob] DESC

/\*

List all encounters that are scheduled to take place in the future showing the encounter ID and its date.

Table needed: encounters

Your result set should return zero rows.

\*/

SELECT [encounter\_id],[start\_dts]

FROM [edw\_emr\_ods].[encounters]

WHERE [start\_dts] > GETDATE()

/\*

List all patients showing the patient's name, his/her gender (e.g. Male/Female), and a gender abbreviation (e.g. M for Male).

Tables needed: patients, gender\_codes.

Your result set should have four rows.

\*/

SELECT p.patient\_nm, g.gender\_title,

CASE WHEN g.gender\_title = 'Male' THEN 'M' WHEN g.gender\_title = 'FEMALE' THEN 'F' ELSE ' ' END as gender\_abb

FROM [edw\_emr\_ods].[patients] p

LEFT JOIN [edw\_emr\_ods].[gender\_codes] g

ON p.[gender\_cd] = g.gender\_code\_id

/\*

For the patient Cosmo Kramer, list all his diagnoses showing the diagnosis code, title, and date of diagnosis.

The most recent diagnosis should be listed first.

Tables needed: diagnoses, patients, encounters, encounter\_diagnoses.

Your result set should have eight rows.

\*/

SELECT p.patient\_nm, d.code, d.title, enc.start\_dts

FROM [edw\_emr\_ods].[patients] p

JOIN [edw\_emr\_ods].[encounters] enc

ON p.patient\_id = enc.patient\_id

JOIN [edw\_emr\_ods].[encounter\_diagnoses] enc\_d

ON enc.encounter\_id = enc\_d.encounter\_id

JOIN [edw\_emr\_ods].[diagnoses] d

ON enc\_d.diagnosis\_id = d.diagnosis\_id

WHERE p.patient\_nm = 'Cosmo Kramer'

ORDER BY enc.start\_dts DESC

/\*

List patients seen by Dr. Julia Hibbert showing the patient's name, number of times seen, date of the last visit, and how many days have passed since the last visit.

Tables needed: patients, providers, encounters.

Your result set should have two rows.

\*/

SELECT x.patient\_nm, x.numb\_seen as num\_seen, x.last\_visit, DATEDIFF(DAY, x.last\_visit, GETDATE()) AS days\_since\_last\_visit ,

DENSE\_RANK () OVER (PARTITION BY x.patient\_nm ORDER BY x.last\_visit DESC) AS rnk

FROM (

SELECT p.patient\_nm, COUNT(e.patient\_id) AS numb\_seen, e.start\_dts AS last\_visit

FROM patients p

JOIN encounters e

ON p.patient\_id = e.patient\_id

JOIN providers pr

ON e.provider\_id = pr.provider\_id

WHERE pr.provider\_nm ='Julia Hibbert'

GROUP BY p.patient\_nm,e.start\_dts) x

/\*

List the first diagnosis for each patient showing the patient's name, diagnosis code and diagnosis date.

If the patient has two or more diagnoses on the earliest date, it's okay to just show one of those diagnoses.

Tables needed: encounters, patients, encounter\_diagnoses, diagnoses.

Your result set should have four rows.

\*/

SELECT \*

FROM(

SELECT p.patient\_nm, d.code, enc.start\_dts,

ROW\_NUMBER() OVER (PARTITION BY p.patient\_nm ORDER BY enc.start\_dts) AS rnk

FROM [edw\_emr\_ods].[patients] p

JOIN [edw\_emr\_ods].[encounters] enc

ON p.patient\_id = enc.patient\_id

JOIN [edw\_emr\_ods].[encounter\_diagnoses] enc\_d

ON enc.encounter\_id = enc\_d.encounter\_id

JOIN [edw\_emr\_ods].[diagnoses] d

ON enc\_d.diagnosis\_id = d.diagnosis\_id) x

WHERE rnk = 1