Punto 1:

SELECT query\_1.NombreTabla AS NombreTabla,

NVL(query\_2.NumColumnas, 0) AS NumColumnas,

NVL(query\_3.NumColsPK, 0) AS NumColsPK,

NVL(query\_4.NumColsNotNull, 0) AS NumColsNotNull,

NVL(query\_5.NumColsFKs, 0) AS NumColsFKs

FROM (

/\*\* Returns all table names\*\*/

SELECT a\_t.TABLE\_NAME AS NombreTabla

FROM ALL\_TABLES a\_t

WHERE a\_t.OWNER = 'PARRANDEROS'

GROUP BY a\_t.TABLE\_NAME

) query\_1

LEFT OUTER JOIN (

/\*\* Returns table names with their column numbers \*\*/

SELECT a\_t\_c.TABLE\_NAME AS NombreTabla,

COUNT(a\_t\_c.COLUMN\_NAME) AS NumColumnas

FROM ALL\_TAB\_COLUMNS a\_t\_c

WHERE a\_t\_c.OWNER = 'PARRANDEROS'

GROUP BY a\_t\_c.TABLE\_NAME

) query\_2

ON query\_1.NombreTabla=query\_2.NombreTabla

LEFT OUTER JOIN (

/\*\* Returns table names with their PK column numbers \*\*/

SELECT a\_c.TABLE\_NAME AS NombreTabla,

COUNT(a\_c.CONSTRAINT\_NAME) AS NumColsPK

FROM ALL\_CONSTRAINTS a\_c

WHERE a\_c.OWNER = 'PARRANDEROS'

AND a\_c.CONSTRAINT\_NAME LIKE 'PK%'

GROUP BY a\_c.TABLE\_NAME

) query\_3

ON query\_2.NombreTabla=query\_3.NombreTabla

LEFT OUTER JOIN (

/\*\* Returns table names with not null requirement \*\*/

SELECT a\_t\_c.TABLE\_NAME AS NombreTabla,

COUNT(a\_t\_c.COLUMN\_NAME) AS NumColsNotNull

FROM ALL\_TAB\_COLUMNS a\_t\_c

WHERE a\_t\_c.OWNER = 'PARRANDEROS'

AND a\_t\_c.NULLABLE = 'N'

GROUP BY a\_t\_c.TABLE\_NAME

) query\_4

ON query\_3.NombreTabla=query\_4.NombreTabla

LEFT OUTER JOIN (

/\*\* Returns table names with their FK column numbers \*\*/

SELECT a\_c.TABLE\_NAME AS NombreTabla,

COUNT(a\_c.CONSTRAINT\_NAME) AS NumColsFKs

FROM ALL\_CONSTRAINTS a\_c

WHERE a\_c.OWNER = 'PARRANDEROS'

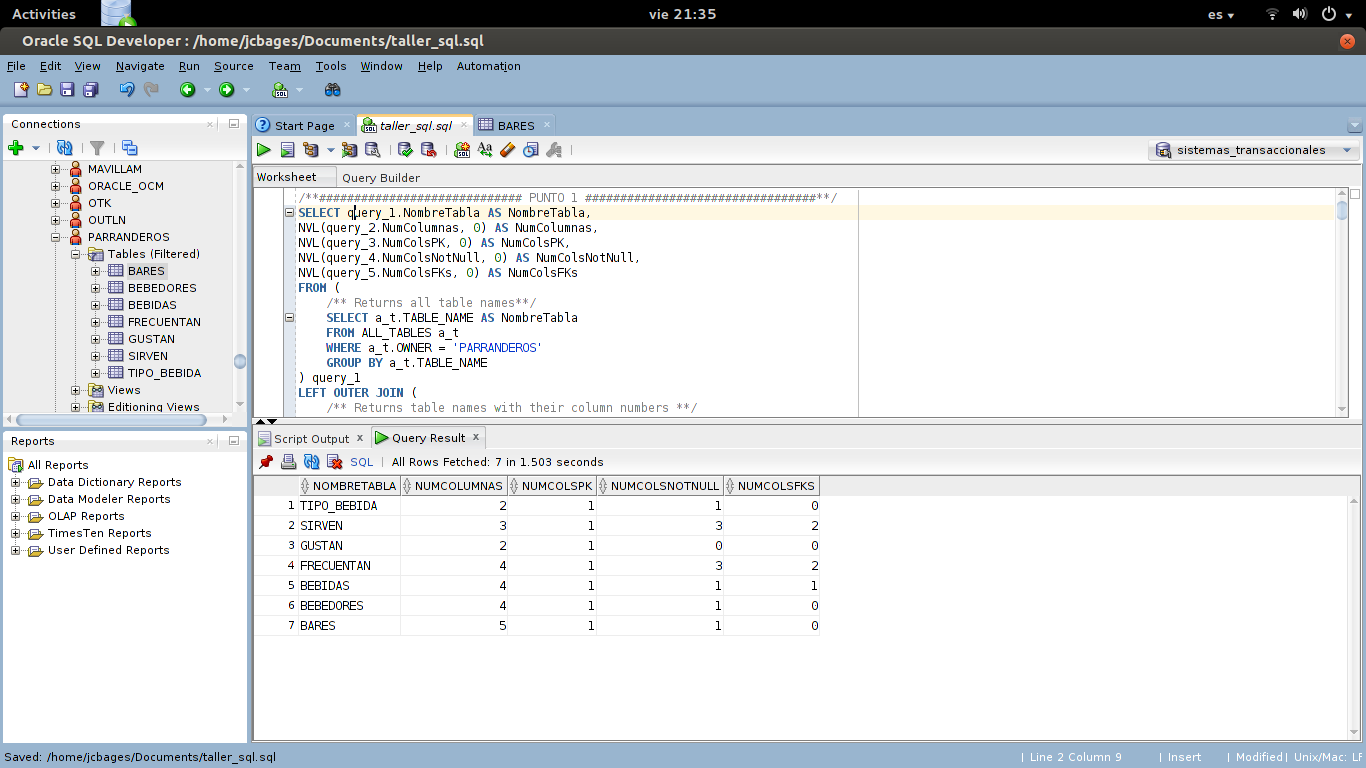
AND a\_c.CONSTRAINT\_NAME LIKE 'FK%'

GROUP BY a\_c.TABLE\_NAME

) query\_5

ON query\_4.NombreTabla=query\_5.NombreTabla

ORDER BY NombreTabla DESC;



Punto 2:

SELECT query\_1.NombreTabla AS NombreTabla,

query\_2.TipoDataCol AS TipoDatoCol,

NVL(query\_3.NumRestriccionesColsTipoDato, 0) AS NumRestriccionesColsTipoDato,

NVL(query\_4.NumColsConEseTipoDeDato, 0) AS NumColsConEseTipoDeDato

FROM (

/\*\* Returns all table names\*\*/

SELECT a\_t.TABLE\_NAME AS NombreTabla

FROM ALL\_TABLES a\_t

WHERE a\_t.OWNER = 'PARRANDEROS'

GROUP BY a\_t.TABLE\_NAME

) query\_1

LEFT OUTER JOIN (

/\*\* Returns all table names with their data types \*\*/

SELECT DISTINCT a\_t\_c.TABLE\_NAME AS NombreTabla,

a\_t\_c.DATA\_TYPE AS TipoDataCol

FROM ALL\_TAB\_COLUMNS a\_t\_c

WHERE a\_t\_c.OWNER = 'PARRANDEROS'

) query\_2

ON query\_1.NombreTabla = query\_2.NombreTabla

LEFT OUTER JOIN (

/\*\* Returns all table names with their data types and their restriction \*\*/

SELECT a\_c\_c.TABLE\_NAME AS NombreTabla,

a\_t\_c.DATA\_TYPE AS TipoDataCol,

COUNT(a\_c\_c.CONSTRAINT\_NAME) AS NumRestriccionesColsTipoDato

FROM ALL\_CONS\_COLUMNS a\_c\_c,

ALL\_TAB\_COLUMNS a\_t\_c

WHERE a\_c\_c.OWNER = 'PARRANDEROS'

AND a\_c\_c.OWNER = a\_t\_c.OWNER

AND a\_c\_c.TABLE\_NAME = a\_t\_c.TABLE\_NAME

AND a\_c\_c.COLUMN\_NAME = a\_t\_c.COLUMN\_NAME

GROUP BY a\_c\_c.TABLE\_NAME, a\_t\_c.DATA\_TYPE

) query\_3

ON query\_2.NombreTabla = query\_3.NombreTabla

AND query\_2.TipoDataCol = query\_3.TipoDataCol

LEFT OUTER JOIN (

/\*\* Returns all table names with their data types and their column nums \*\*/

SELECT a\_t\_c.TABLE\_NAME AS NombreTabla,

a\_t\_c.DATA\_TYPE AS TipoDataCol,

COUNT(a\_t\_c.DATA\_TYPE) AS NumColsConEseTipoDeDato

FROM ALL\_TAB\_COLUMNS a\_t\_c

WHERE a\_t\_c.OWNER = 'PARRANDEROS'

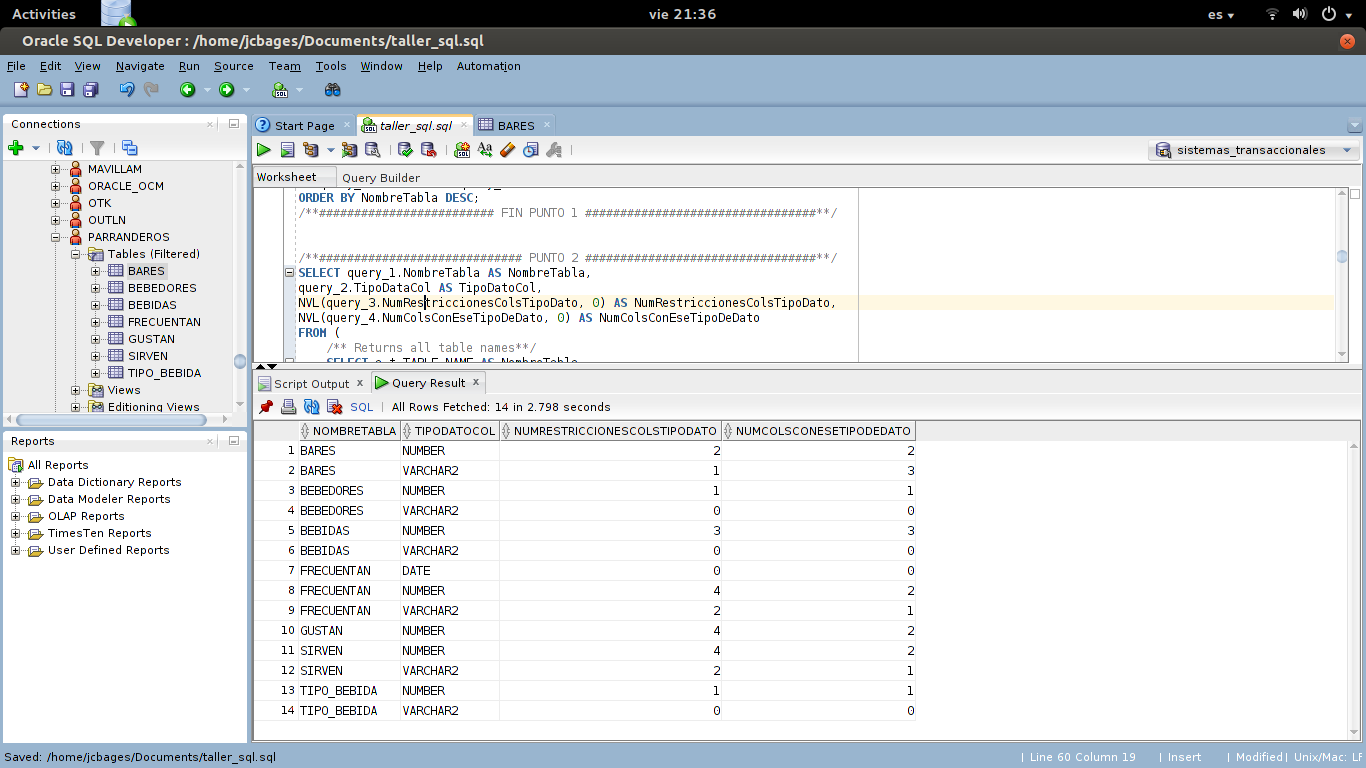
GROUP BY a\_t\_c.TABLE\_NAME, a\_t\_c.DATA\_TYPE

) query\_4

ON query\_3.NombreTabla = query\_4.NombreTabla

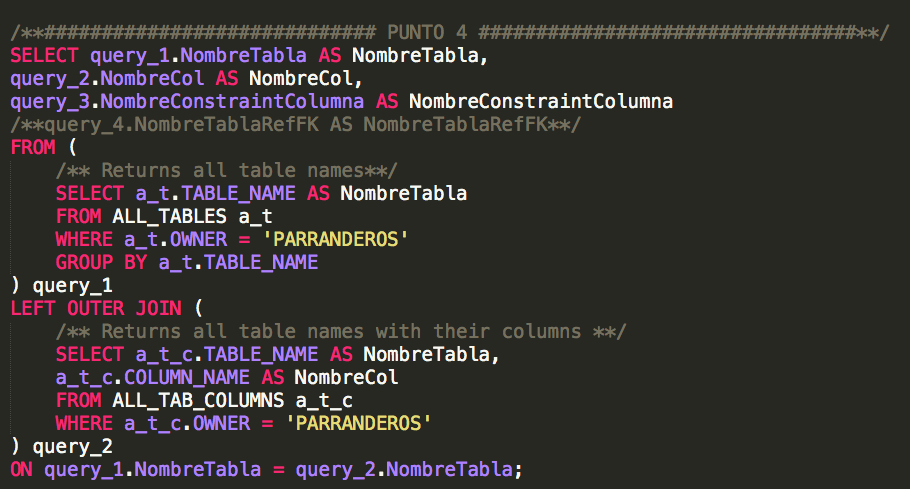
AND query\_3.TipoDataCol = query\_4.TipoDataCol

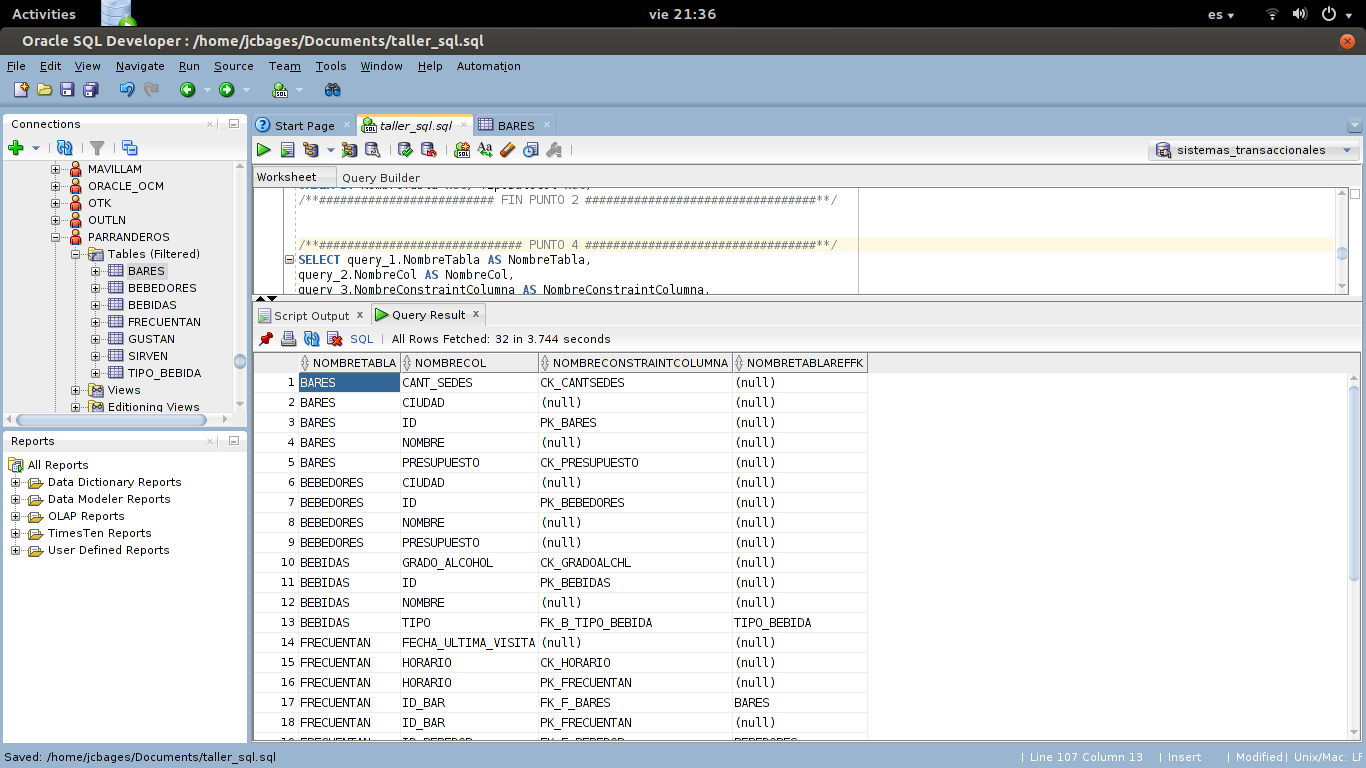
ORDER BY NombreTabla ASC, TipoDatoCol ASC;

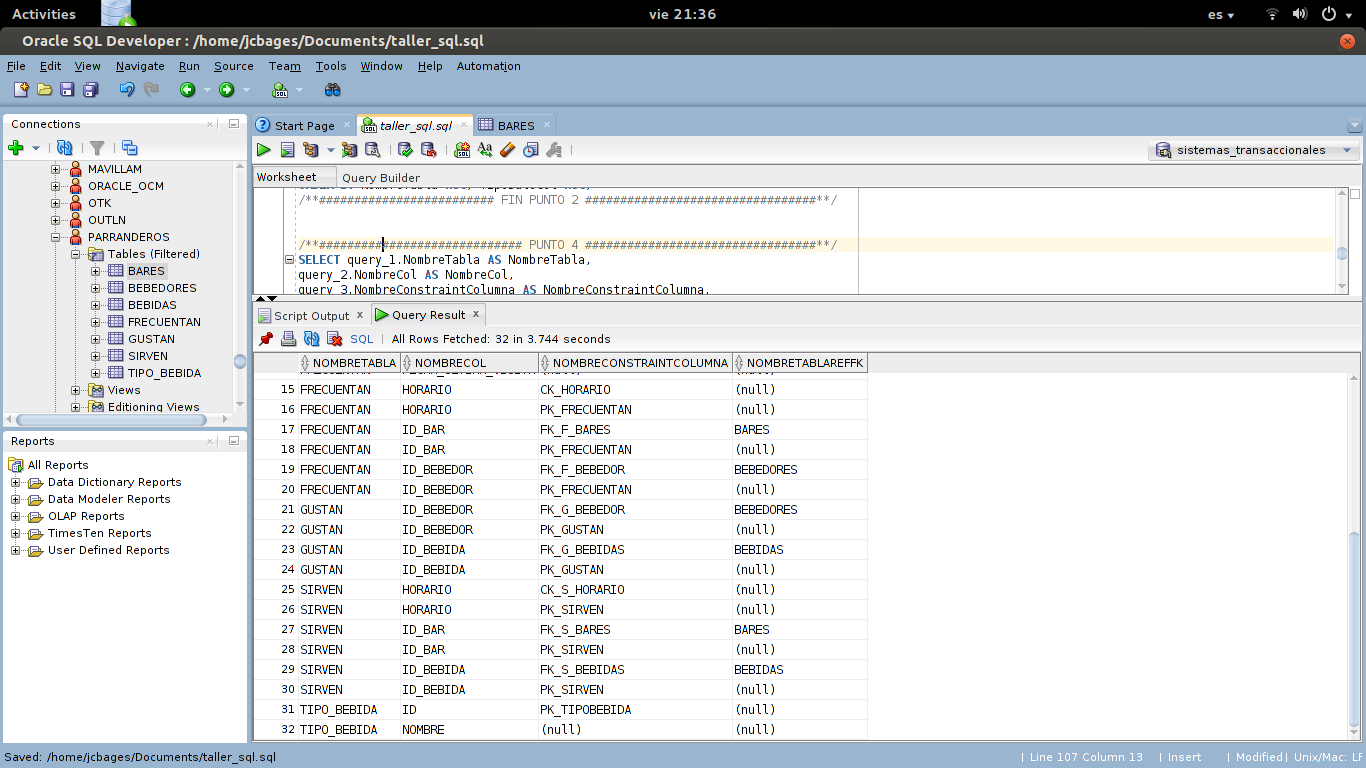


Punto 3:

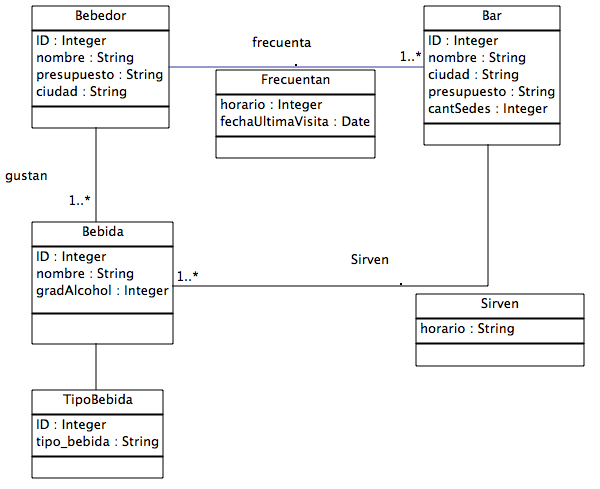
Punto 4:



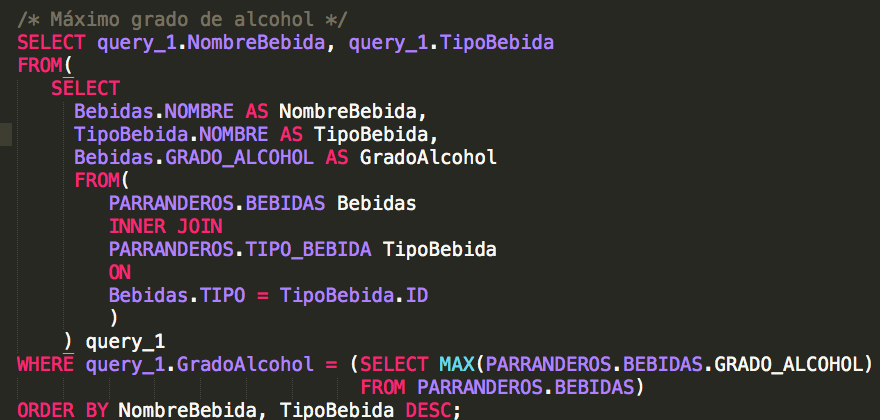


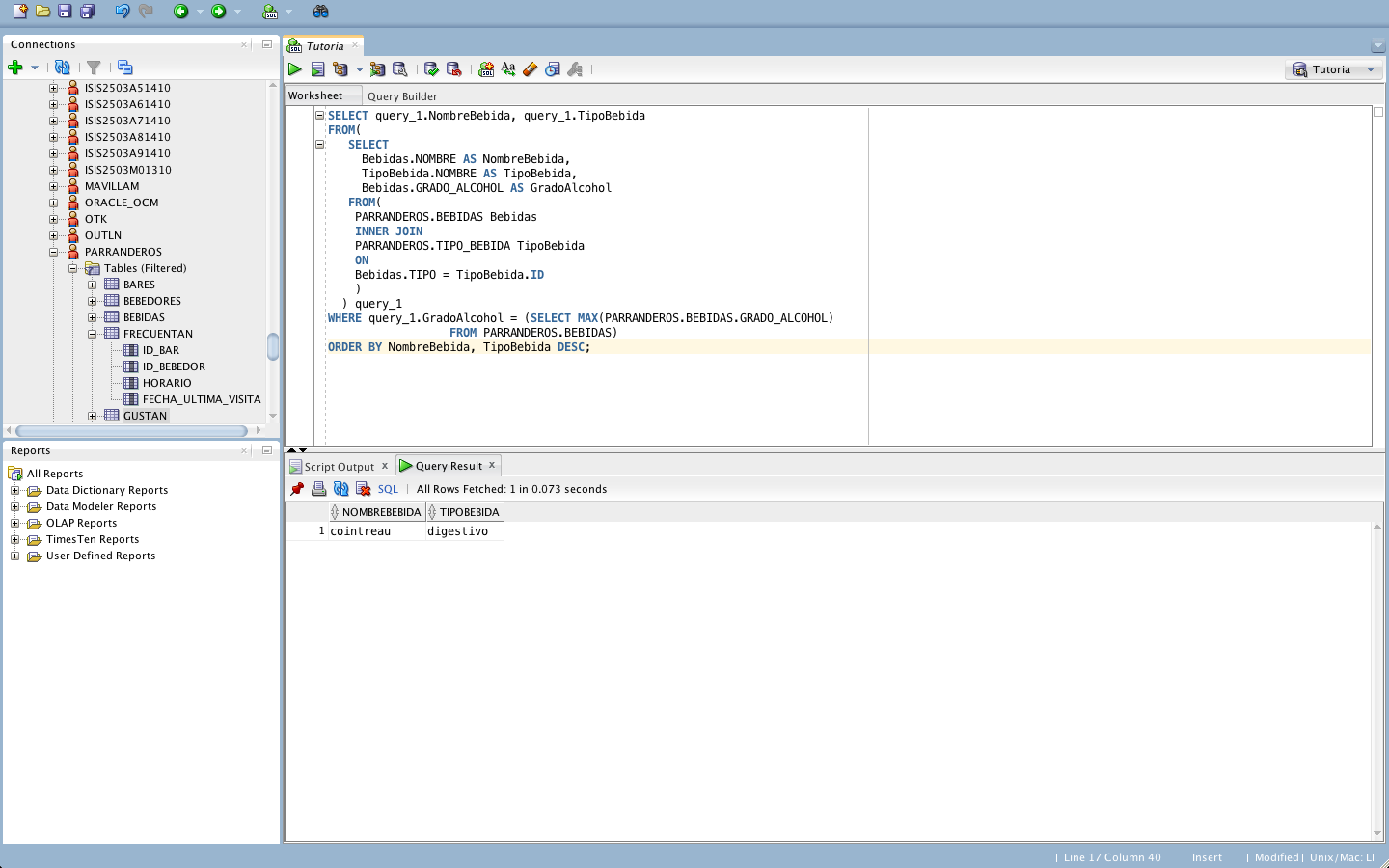


Punto 5:

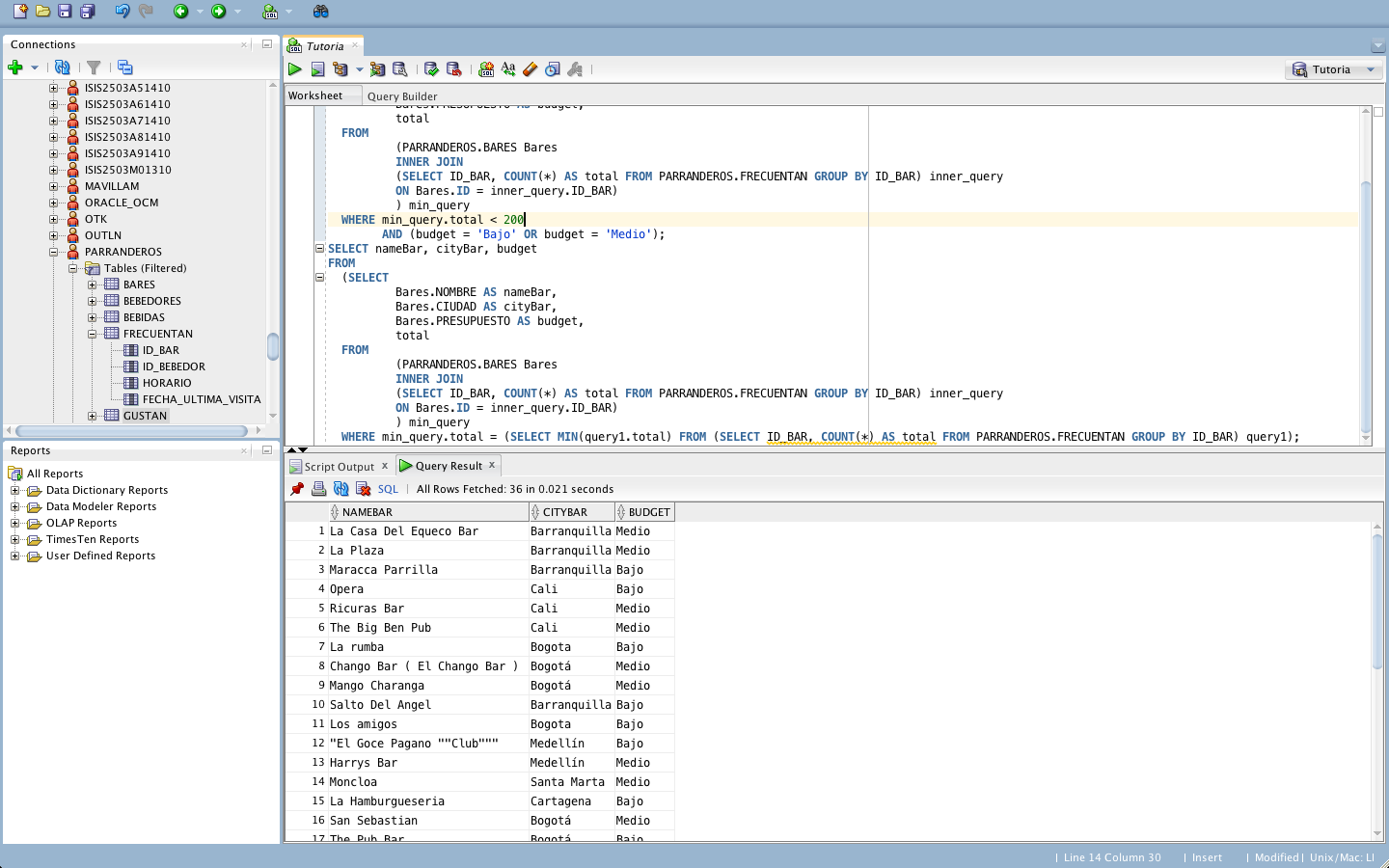


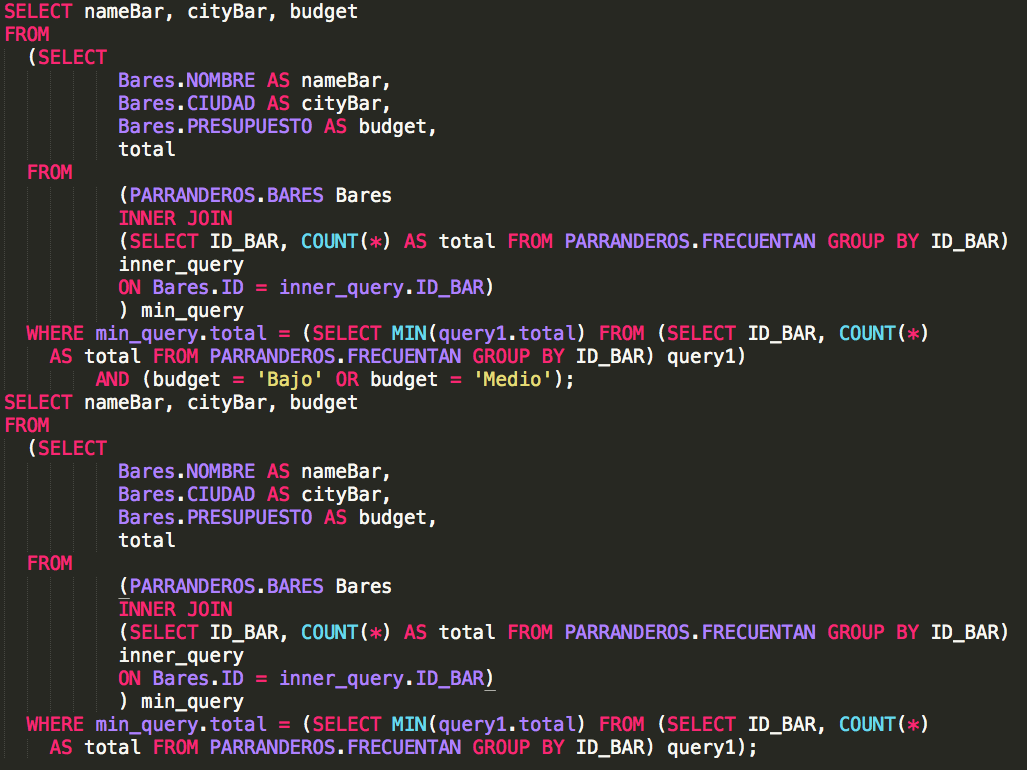
Punto 6:





Punto 7:





Punto 8:

/\*\*############################# PUNTO 8 #################################\*\*/

SELECT bebedores.NOMBRE,

bar.NOMBRE,

freq.FECHA\_ULTIMA\_VISITA

FROM PARRANDEROS.BEBEDORES bebedores,

PARRANDEROS.BARES bar,

PARRANDEROS.FRECUENTAN freq

WHERE bebedores.ID = freq.ID\_BEBEDOR

AND freq.ID\_BAR = bar.ID

AND bebedores.PRESUPUESTO >= bar.PRESUPUESTO

AND bar.CANT\_SEDES >= 2

ORDER BY freq.FECHA\_ULTIMA\_VISITA ASC, bebedores.NOMBRE;

/\*\*######################### FIN PUNTO 8 #################################\*\*/

punto\_8\_1.png

punto\_8\_2.png

punto\_8\_3.png

Punto 9:

/\*\*############################# PUNTO 9 #################################\*\*/

select todo.nombre from

  (select todo.nombre, count(todo.id\_bebida) as num from

    (select \* from

        (select id as id\_bar, nombre from parranderos.bares where presupuesto = 'Alto')

      natural join

        (select id\_bar, id\_bebida from parranderos.sirven where horario='diurno')

      natural join

        (select id as id\_bebida, tipo from parranderos.bebidas)

      natural join

        (select id as tipo from parranderos.tipo\_bebida where nombre='aperitivo')

    ) todo

  group by todo.nombre

  order by num, todo.nombre) todo

where todo.num between 3 and 7;

/\*\*######################### FIN PUNTO 9 #################################\*\*/​

Punto 10:

Tabla cada tupla selecciona los bebedores de una ciudad