“Taller 2\_2 -SQL”

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Contexto de Presentación del documento

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# Consultas SQL sobre el esquema PARRANDEROS

## Primer punto

### Código de la consulta

--AUTHOR: C.10 (DE.ZAMBRANO,AF.RINCON) PTO 1

SELECT

tfinal.NOMBRE\_TABLA,

tfinal.NUM\_COLUMNAS,

COALESCE(tfinal.NUM\_COLS\_NULLABLE, 0),

COALESCE(tfinal.NUM\_COLS\_FK, 0)

FROM

(

SELECT

tcols.NOMBRE\_TABLA,

tcols.NUM\_COLUMNAS,

tcolsnull.NUM\_COLS\_NULLABLE,

tcolsfks.NUM\_COLS\_FK

FROM

(

SELECT

TABLE\_NAME AS NOMBRE\_TABLA,

COUNT(\*)AS NUM\_COLUMNAS

FROM

ALL\_TAB\_COLUMNS

WHERE

OWNER = 'PARRANDEROS'

GROUP BY

TABLE\_NAME

)

tcols

FULL OUTER JOIN

(

SELECT

TABLE\_NAME AS NOMBRE\_TABLA,

COUNT(\*) AS NUM\_COLS\_NULLABLE

FROM

ALL\_TAB\_COLUMNS

WHERE

OWNER = 'PARRANDEROS'

AND NULLABLE = 'Y'

GROUP BY

TABLE\_NAME

)

tcolsnull

ON tcols.NOMBRE\_TABLA = tcolsnull.NOMBRE\_TABLA

FULL OUTER JOIN

(

SELECT

TABLE\_NAME AS NOMBRE\_TABLA,

COUNT(\*) AS NUM\_COLS\_FK

FROM

ALL\_CONSTRAINTS

WHERE

OWNER = 'PARRANDEROS'

AND CONSTRAINT\_TYPE = 'R'

GROUP BY

TABLE\_NAME

)

tcolsfks

ON tcols.NOMBRE\_TABLA = tcolsfks.NOMBRE\_TABLA

)

tfinal

ORDER BY

tfinal.NOMBRE\_TABLA;

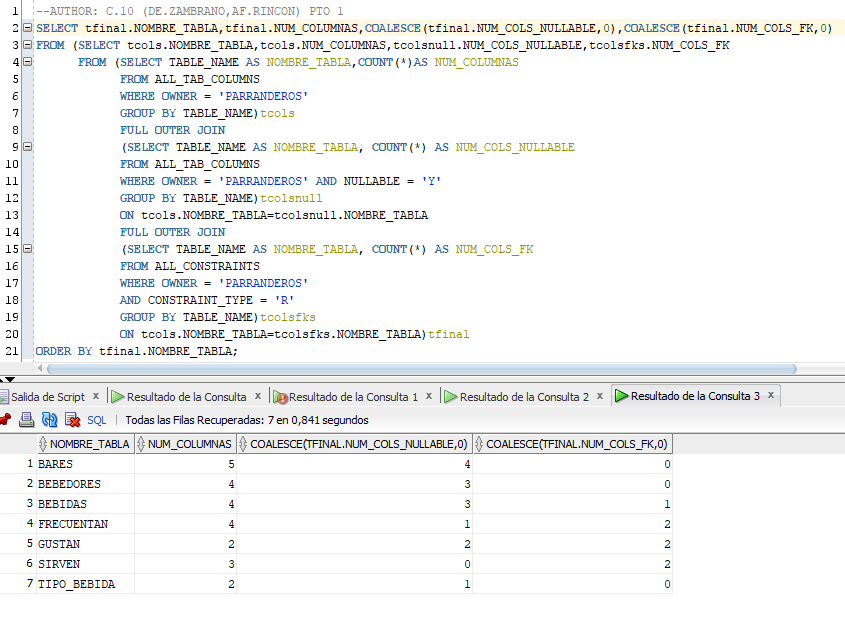


Figura 1: *printScr* del punto 1

## Segundo punto

### Código de la consulta

--AUTHOR: C.10 (DE.ZAMBRANO,AF.RINCON) PTO 2

SELECT

tcols.NOMBRE\_TABLA,

tcols.COLUMN\_NAME AS NOMBRE\_COLUMNA,

tcols.TIPO\_DATO

FROM

(

SELECT

TABLE\_NAME AS NOMBRE\_TABLA,

DATA\_TYPE AS TIPO\_DATO,

COLUMN\_NAME

FROM

ALL\_TAB\_COLUMNS

WHERE

OWNER = 'PARRANDEROS'

)

tcols,

(

SELECT

TABLE\_NAME AS NOMBRE\_TABLA,

CONSTRAINT\_NAME,

COLUMN\_NAME

FROM

ALL\_CONS\_COLUMNS

WHERE

OWNER = 'PARRANDEROS'

AND CONSTRAINT\_NAME LIKE 'PK%\_'

)

tpks

WHERE

tcols.COLUMN\_NAME = tpks.COLUMN\_NAME

AND tcols.NOMBRE\_TABLA = tpks.NOMBRE\_TABLA

ORDER BY

tcols.NOMBRE\_TABLA ASC,

tcols.COLUMN\_NAME ASC;

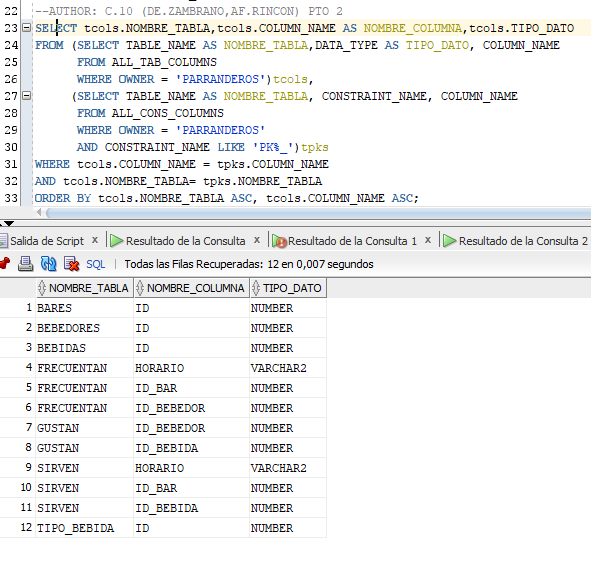


Figura 2: *printScr* del punto 2

## Tercer punto

### Código de la consulta

--AUTHOR: C.10 (DE.ZAMBRANO,AF.RINCON) PTO 3

SELECT

TABLE\_NAME AS NOMBRE\_TABLA,

DATA\_TYPE AS TIPO\_DATO,

COUNT(\*) AS NUM\_COLUMNAS\_XTIPO,

AVG(AVG\_COL\_LEN) AS PROMEDIO\_LONGITUD\_COL

FROM

ALL\_TAB\_COLUMNS

WHERE

OWNER = 'PARRANDEROS'

GROUP BY

TABLE\_NAME,

DATA\_TYPE

ORDER BY

TABLE\_NAME ASC,

DATA\_TYPE ASC,

COUNT(\*) ASC;

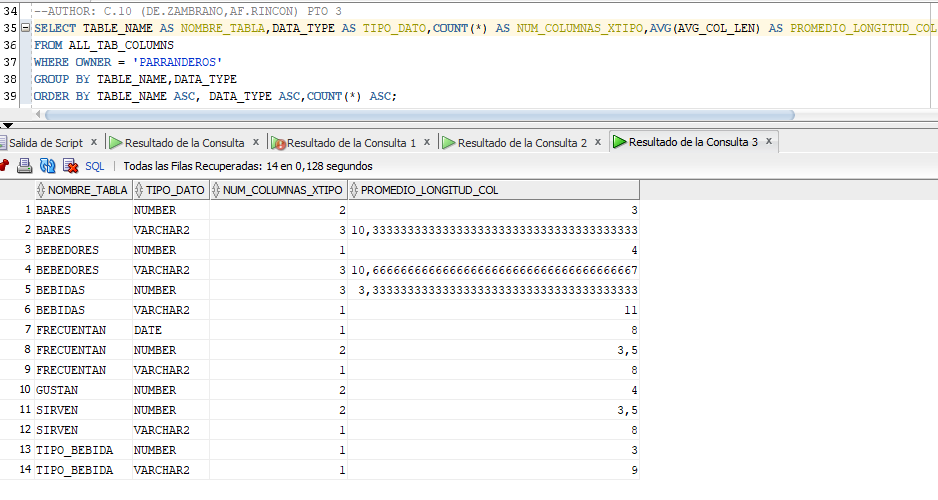


Figura 3: *printScr* del punto 3

## Cuarto Punto

### Código de la consulta

--AUTHOR: C.10 (DE.ZAMBRANO,AF.RINCON) PTO 4

SELECT

tfinal2.NOMBRE\_TABLA,

tfinal2.NOMBRE\_COLUMNA,

tfinal2.TIPO\_DATO,

COALESCE(tfinal2.NOMBRE\_RESTRICCION, 'NO TIENE') AS NOMBRE\_RESTRICCION,

tfinal2.PERMITE\_NULOS

FROM

(

SELECT

tcols.NOMBRE\_COLUMNA,

tcols.NOMBRE\_TABLA,

tcols.TIPO\_DATO,

tcons.NOMBRE\_RESTRICCION,

tcols.PERMITE\_NULOS

FROM

(

SELECT

COLUMN\_NAME AS NOMBRE\_COLUMNA,

TABLE\_NAME AS NOMBRE\_TABLA,

DATA\_TYPE AS TIPO\_DATO,

NULLABLE AS PERMITE\_NULOS

FROM

ALL\_TAB\_COLUMNS

WHERE

OWNER = 'PARRANDEROS'

)

tcols

FULL OUTER JOIN

(

SELECT

COLUMN\_NAME AS NOMBRE\_COLUMNA,

TABLE\_NAME AS NOMBRE\_TABLA,

CONSTRAINT\_NAME AS NOMBRE\_RESTRICCION

FROM

ALL\_CONS\_COLUMNS

WHERE

OWNER = 'PARRANDEROS'

)

tcons

ON tcols.NOMBRE\_COLUMNA = tcons.NOMBRE\_COLUMNA

)

tfinal2

ORDER BY

tfinal2.NOMBRE\_TABLA ASC,

tfinal2.NOMBRE\_COLUMNA ASC,

tfinal2.NOMBRE\_RESTRICCION ASC;

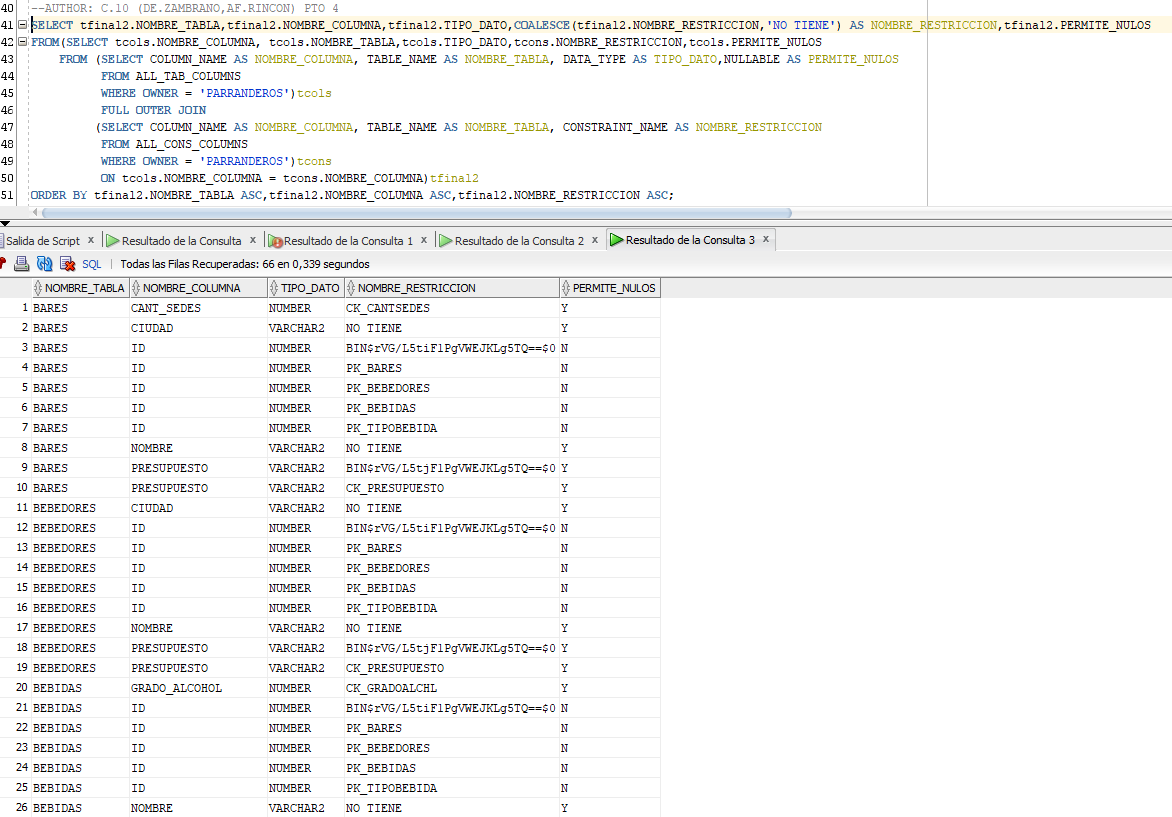


Figura 4: *printScr* del punto 4

## Quinto Punto

### Código de la consulta - etapa a)

SELECT

'SELECT TQUERY.NOMBRE\_COLUMNA,TQUERY.NOMBRE\_TABLA,TQUERY.NUM\_RESTRICCIONES\_XCOL FROM(SELECT \* FROM ( SELECT COLUMN\_NAME AS NOMBRE\_COLUMNA, TABLE\_NAME AS NOMBRE\_TABLA FROM ALL\_TAB\_COLUMNS WHERE OWNER = ''PARRANDEROS'') TCOL LEFT JOIN (SELECT COLUMN\_NAME, TABLE\_NAME,COUNT(CONSTRAINT\_NAME)AS NUM\_RESTRICCIONES\_XCOL FROM ALL\_CONS\_COLUMNS WHERE OWNER = ''PARRANDEROS'' GROUP BY COLUMN\_NAME,TABLE\_NAME)TCONS ON TCOL.NOMBRE\_COLUMNA = TCONS.COLUMN\_NAME AND TCOL.NOMBRE\_TABLA = TCONS.TABLE\_NAME)TQUERY WHERE TQUERY.TABLE\_NAME = ''' || tcols.NOMBRE\_TABLA || ''' AND TQUERY.COLUMN\_NAME = ''' || tcols.NOMBRE\_COLUMNA || ''';' AS QUERY

FROM

(

SELECT

tfinal3.NOMBRE\_COLUMNA,

tfinal3.NOMBRE\_TABLA,

COALESCE(tfinal3.NUM\_RESTRICCIONES\_XCOL, 0) AS NUM\_RESTRICCIONES\_AFECTAN

FROM

(

SELECT

tcols.NOMBRE\_COLUMNA,

tcols.NOMBRE\_TABLA,

tcons.NUM\_RESTRICCIONES\_XCOL

FROM

(

SELECT

COLUMN\_NAME AS NOMBRE\_COLUMNA,

TABLE\_NAME AS NOMBRE\_TABLA,

LENGTH(COLUMN\_NAME) AS longitud\_cadena

FROM

ALL\_TAB\_COLUMNS

WHERE

OWNER = 'PARRANDEROS'

AND LENGTH(COLUMN\_NAME) > 6

)

tcols

LEFT JOIN

(

SELECT

COLUMN\_NAME AS NOMBRE\_COLUMNA,

TABLE\_NAME AS NOMBRE\_TABLA,

COUNT(CONSTRAINT\_NAME)AS NUM\_RESTRICCIONES\_XCOL

FROM

ALL\_CONS\_COLUMNS

WHERE

OWNER = 'PARRANDEROS'

GROUP BY

COLUMN\_NAME,

TABLE\_NAME

)

tcons

ON tcols.NOMBRE\_COLUMNA = tcons.NOMBRE\_COLUMNA

AND tcols.NOMBRE\_TABLA = tcons.NOMBRE\_TABLA

)

tfinal3

)

tcols;

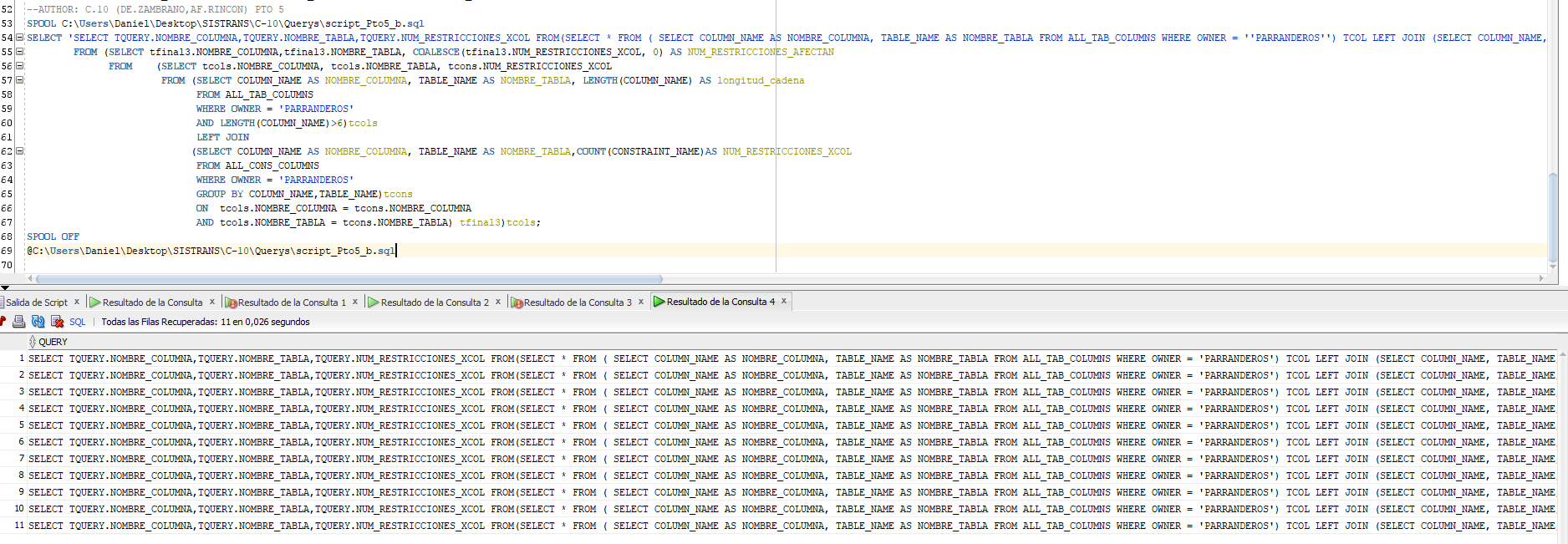


Figura 5: *printScr* del punto 5.a)

### Codigo punto 5 – etapa b)

--AUTHOR: C.10 (DE.ZAMBRANO,AF.RINCON) PTO 5

SPOOL C:\Users\Daniel\Desktop\SISTRANS\C - 10\Querys\script\_Pto5\_b.sql

SELECT

'SELECT TQUERY.NOMBRE\_COLUMNA,TQUERY.NOMBRE\_TABLA,TQUERY.NUM\_RESTRICCIONES\_XCOL FROM(SELECT \* FROM ( SELECT COLUMN\_NAME AS NOMBRE\_COLUMNA, TABLE\_NAME AS NOMBRE\_TABLA FROM ALL\_TAB\_COLUMNS WHERE OWNER = ''PARRANDEROS'') TCOL LEFT JOIN (SELECT COLUMN\_NAME, TABLE\_NAME,COUNT(CONSTRAINT\_NAME)AS NUM\_RESTRICCIONES\_XCOL FROM ALL\_CONS\_COLUMNS WHERE OWNER = ''PARRANDEROS'' GROUP BY COLUMN\_NAME,TABLE\_NAME)TCONS ON TCOL.NOMBRE\_COLUMNA = TCONS.COLUMN\_NAME AND TCOL.NOMBRE\_TABLA = TCONS.TABLE\_NAME)TQUERY WHERE TQUERY.TABLE\_NAME = ''' || tcols.NOMBRE\_TABLA || ''' AND TQUERY.COLUMN\_NAME = ''' || tcols.NOMBRE\_COLUMNA || ''';' AS QUERY

FROM

(

SELECT

tfinal3.NOMBRE\_COLUMNA,

tfinal3.NOMBRE\_TABLA,

COALESCE(tfinal3.NUM\_RESTRICCIONES\_XCOL, 0) AS NUM\_RESTRICCIONES\_AFECTAN

FROM

(

SELECT

tcols.NOMBRE\_COLUMNA,

tcols.NOMBRE\_TABLA,

tcons.NUM\_RESTRICCIONES\_XCOL

FROM

(

SELECT

COLUMN\_NAME AS NOMBRE\_COLUMNA,

TABLE\_NAME AS NOMBRE\_TABLA,

LENGTH(COLUMN\_NAME) AS longitud\_cadena

FROM

ALL\_TAB\_COLUMNS

WHERE

OWNER = 'PARRANDEROS'

AND LENGTH(COLUMN\_NAME) > 6

)

tcols

LEFT JOIN

(

SELECT

COLUMN\_NAME AS NOMBRE\_COLUMNA,

TABLE\_NAME AS NOMBRE\_TABLA,

COUNT(CONSTRAINT\_NAME)AS NUM\_RESTRICCIONES\_XCOL

FROM

ALL\_CONS\_COLUMNS

WHERE

OWNER = 'PARRANDEROS'

GROUP BY

COLUMN\_NAME,

TABLE\_NAME

)

tcons

ON tcols.NOMBRE\_COLUMNA = tcons.NOMBRE\_COLUMNA

AND tcols.NOMBRE\_TABLA = tcons.NOMBRE\_TABLA

)

tfinal3

)

tcols;

SPOOL OFF

@C:\Users\Daniel\Desktop\SISTRANS\C - 10\Querys\script\_Pto5\_b.sql

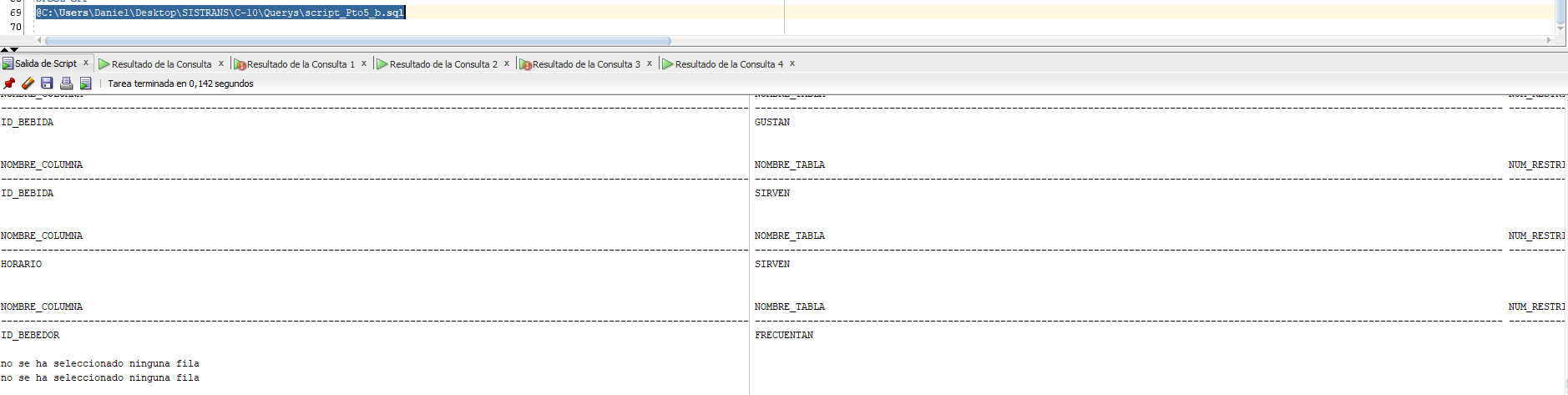


Figura 5: *printScr* del punto 5.b)

Nota: cambiar el PATH que se especifica en el archivo sql dentro de /c-10/Querys/script\_pto5\_b para que se pueda generar el archivo que contiene los *query’s* ejecutables en una ubicación deseada.

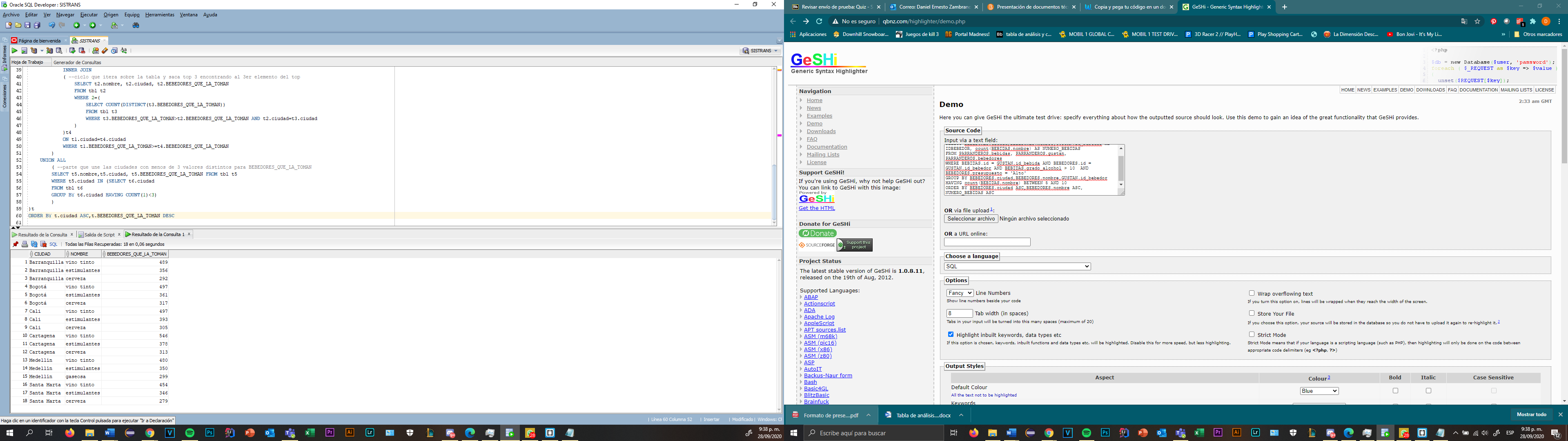


Figura 4: *printScr* del punto 5

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# Bibliografía

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