Taller SQL - Parte 2

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1.a Cláusula SQL utilizada:

```
SELECT nombreTablaFinal AS NombreTabla,
     COALESCE (numCol, 0) AS NumColumnas,
     COALESCE (numNull, 0) AS NumColsNull,
     COALESCE (numFK, 0) AS NumColsFKs
FROM (((SELECT TABLE NAME AS nombreTablaFinal, COUNT(NULLABLE) numCol
        FROM (SELECT *
              FROM ALL TAB COLUMNS
              WHERE owner='PARRANDEROS')
        GROUP BY TABLE NAME) T1
           FULL OUTER JOIN
       (SELECT TABLE NAME AS nombreTabla, COALESCE(COUNT(NULLABLE), 0) as
                 numNull
        FROM (SELECT *
              FROM ALL TAB COLUMNS
              WHERE owner='PARRANDEROS' AND NULLABLE = 'Y')
        GROUP BY TABLE NAME) T2 ON T1.nombreTablaFinal=T2.nombreTabla)
            FULL OUTER JOIN
       (SELECT TABLE NAME AS nombreTabla, COUNT(*) AS numFk
        FROM (SELECT *
              FROM ALL CONS COLUMNS
              WHERE owner='PARRANDEROS' AND CONSTRAINT NAME LIKE 'FK%')
        GROUP BY TABLE NAME) T3 ON NOMBRETABLAFINAL=T3.NOMBRETABLA)
ORDER BY NombreTabla;
```

Captura de cláusula:

```
| SELECT nombreTablaFinal AS NombreTabla, COALESCE (numCol, 0) AS NumColumnas,
       COALESCE (numNull, 0) AS NumColsNull, COALESCE (numFK, 0) AS NumColsFKs
FROM(((SELECT TABLE_NAME AS nombreTablaFinal, COUNT(NULLABLE) numCol
      FROM (SELECT *
            FROM ALL TAB COLUMNS
            WHERE owner='PARRANDEROS')
      GROUP BY TABLE NAME) T1
      FULL OUTER JOIN
     (SELECT TABLE_NAME AS nombreTabla, COALESCE(COUNT(NULLABLE), 0) as numNull
      FROM (SELECT *
            FROM ALL_TAB_COLUMNS
            WHERE owner='PARRANDEROS' AND NULLABLE = 'Y')
      GROUP BY TABLE NAME) T2 ON T1.nombreTablaFinal=T2.nombreTabla)
      FULL OUTER JOIN
     (SELECT TABLE NAME AS nombreTabla, COUNT(*) AS numFk
      FROM (SELECT *
            FROM ALL CONS COLUMNS
           WHERE owner='PARRANDEROS' AND CONSTRAINT NAME LIKE 'FK%')
      GROUP BY TABLE NAME) T3 ON NOMBRETABLAFINAL=T3.NOMBRETABLA)
ORDER BY NombreTabla;
```

Resultados en sqlDeveloper:

	♦ NOMBRETABLA		NUMCOLSNULL	NUMCOLSFKS
1	BARES	5	4	0
2	BEBEDORES	4	3	0
3	BEBIDAS	4	3	1
4	FRECUENTAN	4	1	2
5	GUSTAN	2	2	2
6	SIRVEN	3	0	2
7	TIPO_BEBIDA	2	1	0

1.b Cláusula SQL utilizada:

```
SELECT t.TABLE_NAME AS NombreTabla,

(SELECT COUNT(*) FROM ALL_TAB_COLUMNS WHERE

OWNER='PARRANDEROS' AND TABLE_NAME = t.TABLE_NAME) AS NumColumnas,

(SELECT COUNT(*) FROM ALL_TAB_COLUMNS WHERE

OWNER='PARRANDEROS' AND TABLE_NAME = t.TABLE_NAME AND NULLABLE =
'Y') AS NumColsNull,

(SELECT COUNT(*) FROM ALL_CONS_COLUMNS WHERE

OWNER='PARRANDEROS' AND CONSTRAINT_NAME LIKE 'FK%' AND TABLE_NAME =
t.TABLE_NAME) AS NumColsFKs

FROM ALL_TABLES t

WHERE t.OWNER='PARRANDEROS'

ORDER BY NombreTabla;
```

Captura de cláusula:

```
SELECT t.TABLE_NAME AS NombreTabla,

(SELECT COUNT(*) FROM ALL_TAB_COLUMNS WHERE OWNER='PARRANDEROS' AND TABLE_NAME = t.TABLE_NAME AND NULLABLE = 'Y') AS NumColsNull,

(SELECT COUNT(*) FROM ALL_TAB_COLUMNS WHERE OWNER='PARRANDEROS' AND TABLE_NAME = t.TABLE_NAME AND NULLABLE = 'Y') AS NumColsNull,

(SELECT COUNT(*) FROM ALL_CONS_COLUMNS WHERE OWNER='PARRANDEROS' AND CONSTRAINT_NAME LIKE 'FK%' AND TABLE_NAME = t.TABLE_NAME) AS NumColsFKs

FROM ALL_TABLES t

WHERE t.OWNER='PARRANDEROS'

ORDER BY NombreTabla:
```

Resultados en sqlDeveloper:

	♦ NOMBRETABLA	♦ NUMCOLUMNAS	NUMCOLSNULL	NUMCOLSFKS NumcolsFKS
1	BARES	5	4	0
2	BEBEDORES	4	3	0
3	BEBIDAS	4	3	1
4	FRECUENTAN	4	1	2
5	GUSTAN	2	2	2
6	SIRVEN	3	0	2
7	TIPO_BEBIDA	2	1	0

2. Cláusula SQL utilizada:

Captura de cláusula:

Resultados en sqlDeveloper:

	♦ NOMBRETABLA	♦ NOMBRECOLSPK	
1	BARES	ID	NUMBER
2	BEBEDORES	ID	NUMBER
3	BEBIDAS	ID	NUMBER
4	FRECUENTAN	HORARIO	VARCHAR2
5	FRECUENTAN	ID_BAR	NUMBER
6	FRECUENTAN	ID_BEBEDOR	NUMBER
7	GUSTAN	ID_BEBEDOR	NUMBER
8	GUSTAN	ID_BEBIDA	NUMBER
9	SIRVEN	HORARIO	VARCHAR2
10	SIRVEN	ID_BAR	NUMBER
11	SIRVEN	ID_BEBIDA	NUMBER
12	TIPO_BEBIDA	ID	NUMBER

3. Cláusula SQL utilizada:

Captura de cláusula:

```
SELECT table_name as NombreTabla, data_type AS TipoDeDato,

COUNT (*) AS NumColsTipoDato, ROUND(AVG(avg_col_len), 2) AS PromedioLongitudCol
FROM( (SELECT *

FROM ALL_TAB_COLUMNS

WHERE owner='PARRANDEROS') )
GROUP BY table_name, data_type
ORDER BY NombreTabla, TipoDeDato, NumColsTipoDato;
```

Resultados en sqlDeveloper:

	♦ NOMBRETABLA			♦ PROMEDIOLONGITUDCOL
1	BARES	NUMBER	2	3
2	BARES	VARCHAR2	3	10,33
3	BEBEDORES	NUMBER	1	4
4	BEBEDORES	VARCHAR2	3	10,67
5	BEBIDAS	NUMBER	3	3,33
6	BEBIDAS	VARCHAR2	1	11
7	FRECUENTAN	DATE	1	8
8	FRECUENTAN	NUMBER	2	3,5
9	FRECUENTAN	VARCHAR2	1	8
10	GUSTAN	NUMBER	2	4
11	SIRVEN	NUMBER	2	3,5
12	SIRVEN	VARCHAR2	1	8
13	TIPO_BEBIDA	NUMBER	1	3
14	TIPO_BEBIDA	VARCHAR2	1	9

4. Cláusula SQL utilizada:

Captura de cláusula:

Resultados en sqlDeveloper:

	♦ NOMBRETABLA	♦ NOMBRECOLUMNA		♦ NOMBRERESTRICCION	♦ PERMITENULOS
1	BARES	CANT_SEDES	NUMBER	CK_CANTSEDES	Y
2	BARES	CIUDAD	VARCHAR2	NO TIENE	Y
3	BARES	ID	NUMBER	PK_BARES	N
4	BARES	NOMBRE	VARCHAR2	NO TIENE	Y
5	BARES	PRESUPUESTO	VARCHAR2	CK_PRESUPUESTO	Y
6	BEBEDORES	CIUDAD	VARCHAR2	NO TIENE	Y
7	BEBEDORES	ID	NUMBER	PK_BEBEDORES	N
8	BEBEDORES	NOMBRE	VARCHAR2	NO TIENE	Y
9	BEBEDORES	PRESUPUESTO	VARCHAR2	CK_BEBEDORES_PRESUPUESTO	Y
10	BEBIDAS	GRADO_ALCOHOL	NUMBER	CK_GRADOALCHL	Y
11	BEBIDAS	ID	NUMBER	PK_BEBIDAS	N
12	BEBIDAS	NOMBRE	VARCHAR2	NO TIENE	Y
13	BEBIDAS	TIPO	NUMBER	FK_B_TIPO_BEBIDA	Y
14	FRECUENTAN	FECHA_ULTIMA_VISITA	DATE	NO TIENE	Y
15	FRECUENTAN	HORARIO	VARCHAR2	CK_HORARIO	N
16	FRECUENTAN	HORARIO	VARCHAR2	PK_FRECUENTAN	N
17	FRECUENTAN	ID_BAR	NUMBER	FK_F_BARES	N
18	FRECUENTAN	ID_BAR	NUMBER	PK_FRECUENTAN	N
19	FRECUENTAN	ID_BEBEDOR	NUMBER	FK_F_BEBEDOR	N
20	FRECUENTAN	ID_BEBEDOR	NUMBER	PK_FRECUENTAN	N
21	GUSTAN	ID_BEBEDOR	NUMBER	FK_G_BEBEDOR	Y
22	GUSTAN	ID_BEBEDOR	NUMBER	PK_GUSTAN	Y
23	GUSTAN	ID_BEBIDA	NUMBER	FK_G_BEBIDAS	Y
24	GUSTAN	ID BEBIDA	NUMBER	PK GUSTAN	Y

	NOMBRETABLA	♦ NOMBRECOLUMNA		♦ NOMBRERESTRICCION	♦ PERMITENULOS
24	GUSTAN	ID_BEBIDA	NUMBER	PK_GUSTAN	Y
25	SIRVEN	HORARIO	VARCHAR2	CK_S_HORARIO	N
26	SIRVEN	HORARIO	VARCHAR2	PK_SIRVEN	N
27	SIRVEN	ID_BAR	NUMBER	FK_S_BARES	N
28	SIRVEN	ID_BAR	NUMBER	PK_SIRVEN	N
29	SIRVEN	ID_BEBIDA	NUMBER	FK_S_BEBIDAS	N
30	SIRVEN	ID_BEBIDA	NUMBER	PK_SIRVEN	N
31	TIPO_BEBIDA	ID	NUMBER	PK_TIPOBEBIDA	N
32	TIPO_BEBIDA	NOMBRE	VARCHAR2	NO TIENE	Y

5. Cláusula SQL utilizada:

a) SELECT column_name, 'SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE ' || column_name || ' = column_name GROUP BY table_name;' AS sentencia

FROM ALL_CONS_COLUMNS

WHERE owner='PARRANDEROS' AND LENGTH(column_name) > 6;

b)

Captura de cláusula:

a)

```
(SELECT column_name, 'SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE ' | | column_name | | ' = column_name GROUP BY table_name;' AS sentencia PROM ALL_CONS_COLUMNS
WHERE owner='PARRANDEROS' AND LENGTH(column_name) > 6);
```

b)

Resultados en sqlDeveloper:

a)

	SENTENCIA
1 PRESUPUESTO	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE PRESUPUESTO = column_name GROUP BY table_name;
2 PRESUPUESTO	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE PRESUPUESTO = column_name GROUP BY table_name;
3 CANT_SEDES	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE CANT_SEDES = column_name GROUP BY table_name;
4 GRADO_ALCOHOI	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE GRADO_ALCOHOL = column_name GROUP BY table_name
5 ID_BEBEDOR	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE ID_BEBEDOR = column_name GROUP BY table_name;
6 HORARIO	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE HORARIO = column_name GROUP BY table_name;
7 HORARIO	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE HORARIO = column_name GROUP BY table_name;
8 ID_BEBIDA	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE ID_BEBIDA = column_name GROUP BY table_name;
9 ID_BEBEDOR	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE ID_BEBEDOR = column_name GROUP BY table_name;
10 ID_BEBIDA	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE ID_BEBIDA = column_name GROUP BY table_name;
11 HORARIO	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE HORARIO = column_name GROUP BY table_name;
12 HORARIO	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE HORARIO = column_name GROUP BY table_name;
13 ID_BEBEDOR	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE ID_BEBEDOR = column_name GROUP BY table_name;
14 ID_BEBEDOR	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE ID_BEBEDOR = column_name GROUP BY table_name;
15 ID_BEBIDA	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE ID_BEBIDA = column_name GROUP BY table_name;
16 ID_BEBIDA	SELECT table_name, COUNT(*) FROM ALL_CONS_COLUMNS WHERE ID_BEBIDA = column_name GROUP BY table_name;
17 PRESUPUESTO	SELECT table name. COUNT(*) FROM ALL CONS COLUMNS WHERE PRESUPUESTO = column name GROUP BY table name: