

Introducción a bases de datos

Sesión 3

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1. Ejemplos

```
1 SHOW KEYS FROM venta;
2 # +--
3 # | Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation |
4 # | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible |
5 # | Expression |
6 # +--
7 # | venta | 0 | PRIMARY | | id_venta | A |
8 # | 1000 | NULL | NULL | BTREE | YES | NULL |
9 # |
10 # | venta | 1 | fk_venta_articulo1_idx | 1 | id_articulo | A |
11 # | 618 | NULL | NULL | BTREE | YES | NULL |
12 # |
13 # | venta | 1 | fk_venta_empleado1_idx | 1 | id_empleado | A |
14 # | 642 | NULL | NULL | BTREE | YES | NULL |
15 # |
16 # +--
17 # 3 rows in set (0.09 sec)
18
19 SELECT*FROM empleado AS e JOIN puesto AS p ON e.id_puesto=p.id_puesto;
20 # +--
21 # | id_empleado | id_puesto | nombre | apellido_paterno | apellido_materno | rfc
22 # | id_puesto | nombre | salario |
23 # +--
24 # | 1 | 235 | Enrichetta | Bodechon | Ivkovic |
25 # | CLKQ293450Y89 | 235 | Product Engineer | 18836.86 |
26 # | 2 | 659 | Morey | Bowskill | Metham |
27 # | SAUJ115055X38 | 659 | Budget/Accounting Analyst IV | 10326.54 |
28 # | 3 | 745 | Jeannette | Potes | Heisler |
29 # | HIPN989807Q14 | 745 | Occupational Therapist | 19806.07 |
30 # | 4 | 139 | Cassey | Womersley | Chapell |
31 # | X0FW986548J75 | 139 | Financial Advisor | 20528.15 |
32 # | 5 | 668 | Gnni | Risom | Kalinowsky |
33 # | YTL0032309Z47 | 668 | Physical Therapy Assistant | 20688.87 |
34 # | 6 | 96 | Lisle | Carlsson | Marquot |
35 # | PONG971278E47 | 96 | Marketing Assistant | 19593.51 |
36 # 1000 rows in set (0.25 sec)
37
38 SELECT*FROM puesto AS p LEFT JOIN empleado e ON p.id_puesto=e.id_puesto;
39 # +--
```

```

27 # | id_puesto | nombre | salario | id_empleado | id_puesto | nombre
    | apellido_paterno | apellido_materno | rfc |
28 # +--
    +-----+-----+-----+-----+-----+-----+
29 # | 1 | Analog Circuit Design manager | 28500.98 | 158 | 1 |
    Kristien | MacGiffin | Spurdun | BPSX843218N44 |
30 # | 1 | Analog Circuit Design manager | 28500.98 | 882 | 1 | Killie
    | Cosyns | Jakoubek | ILEX192895U29 |
31 # | 2 | Junior Executive | 10508.47 | NULL | NULL | NULL
    | NULL | NULL | NULL |
32 # | 3 | Director of Sales | 28725.56 | 519 | 3 | Dicky
    | Abotson | Nutbrown | CSZT485586W61 |
33 # | 3 | Director of Sales | 28725.56 | 843 | 3 |
    Thorndike | Dowdall | Schnitter | KDFM877616F59 |
34 # | 4 | Staff Scientist | 14965.31 | 317 | 4 | Norrie
    | McGarrie | Hartopp | HDOW177256016 |
35 # | 4 | Staff Scientist | 14965.31 | 361 | 4 | Maxy
    | Udden | Kose | MBZF302490Y06 |
36 # | 5 | Desktop Support Technician | 15885.41 | NULL | NULL | NULL
    | NULL | NULL | NULL |
37 # | 6 | Budget/Accounting Analyst III | 17131.23 | 166 | 6 | Della
    | Fulbrook | Harrie | APGJ840909W11 |
38 # | 6 | Budget/Accounting Analyst III | 17131.23 | 206 | 6 | Katya
    | Banbridge | Fossitt | ELAY505814Q48 |
39 # | 7 | Accounting Assistant III | 29257.91 | 796 | 7 | Abbie
    | Tibald | Pymer | OCBH010837012 |
40 # | 8 | Programmer Analyst II | 23223.95 | NULL | NULL | NULL
    | NULL | NULL | NULL |
41 # 1366 rows in set (0.24 sec)
42
43
44 SELECT*FROM empleado AS e RIGHT JOIN puesto AS p ON e.id_puesto=p.id_puesto;
45 # +--
    +-----+-----+-----+-----+-----+-----+
46 # | id_empleado | id_puesto | nombre | apellido_paterno | apellido_materno | rfc
    | id_puesto | nombre | salario |
47 # +--
    +-----+-----+-----+-----+-----+-----+
48 # | 158 | 1 | Kristien | MacGiffin | Spurdun |
    BPSX843218N44 | 1 | Analog Circuit Design manager | 28500.98 |
49 # | 882 | 1 | Killie | Cosyns | Jakoubek |
    ILEX192895U29 | 1 | Analog Circuit Design manager | 28500.98 |
50 # | NULL | NULL | NULL | NULL | NULL | NULL
    | 2 | Junior Executive | 10508.47 |
51 # | 519 | 3 | Dicky | Abotson | Nutbrown |
    CSZT485586W61 | 3 | Director of Sales | 28725.56 |
52 # | 843 | 3 | Thorndike | Dowdall | Schnitter |
    KDFM877616F59 | 3 | Director of Sales | 28725.56 |
53 # | 317 | 4 | Norrie | McGarrie | Hartopp |
    HDOW177256016 | 4 | Staff Scientist | 14965.31 |
54 # | 361 | 4 | Maxy | Udden | Kose |
    MBZF302490Y06 | 4 | Staff Scientist | 14965.31 |
55 # | NULL | NULL | NULL | NULL | NULL | NULL
    | 5 | Desktop Support Technician | 15885.41 |
56 # | 166 | 6 | Della | Fulbrook | Harrie |
    APGJ840909W11 | 6 | Budget/Accounting Analyst III | 17131.23 |
57 # | 206 | 6 | Katya | Banbridge | Fossitt |
    ELAY505814Q48 | 6 | Budget/Accounting Analyst III | 17131.23 |
58 # | 796 | 7 | Abbie | Tibald | Pymer |
    OCBH010837012 | 7 | Accounting Assistant III | 29257.91 |
59 # | NULL | NULL | NULL | NULL | NULL | NULL
    | 8 | Programmer Analyst II | 23223.95 |
60 # | NULL | NULL | NULL | NULL | NULL | NULL
    | 9 | Nurse Practitioner | 11483.4 |
61 # 1366 rows in set (0.24 sec)

1 SELECT v.clave, v.fecha, a.nombre producto, a.precio, concat(e.nombre, ' ', e.apellido_paterno)
    empleado FROM venta v JOIN empleado e ON v.id_empleado=e.id_empleado JOIN articulo a ON v.

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```

id_articulo=a.id_articulo;
2 # +--
-----+-----+-----+-----+-----+-----+
3 # | clave          | fecha              | producto              | precio | empleado
4 # +--
-----+-----+-----+-----+-----+-----+
5 # | 0228-3661 | 2019-11-15 00:00:00 | Cake - Cake Sheet Macaroon | 3714.37 | Arlana
6 # | 52125-277 | 2019-04-23 00:00:00 | Beans - Long, Chinese | 1157.42 | Julianna
7 # | 0049-0032 | 2019-08-31 00:00:00 | Beef - Rib Roast, Capless | 4788.24 | Maryellen
8 # | 52125-277 | 2020-02-03 15:04:57 | Langers - Ruby Red Grapfruit | 4786.97 | Cad
9 # | 13107-062 | 2019-10-30 00:00:00 | Filter - Coffee | 5816.84 | Michaeline
10 # | 0049-0032 | 2020-02-03 15:05:27 | Corn Meal | 5066.16 | Courtney
11 # | 47335-894 | 2019-06-08 00:00:00 | Wine - White, Pelee Island | 2735.46 | Giuditta
12 # | 52125-277 | 2020-02-03 15:04:57 | Bagelers - Cinn / Brown | 1133.63 | Julianna
13 # | 0049-0032 | 2020-02-03 15:05:27 | Smoked Tongue | 2115.44 | Rosalinde
14 # | 13107-062 | 2020-02-03 15:05:40 | Sage Ground Wiberg | 2689.33 | Ema
15 # | 51655-951 | 2019-10-10 00:00:00 | Duck - Breast | 1930.66 | Emmy Roblin
16 # | 0049-0032 | 2020-02-03 15:05:27 | Filter - Coffee | 5816.84 | Mignonne
17 # | 52380-1865 | 2019-07-09 00:00:00 | Strawberries - California | 3620.47 | Hersch
18 # | 47335-894 | 2020-02-03 15:05:50 | Cake - Box Window 10x10x2.5 | 5929.94 | Hyacinthia
19 # | 13107-062 | 2020-02-03 15:05:40 | Beef - Montreal Smoked Brisket | 1864.11 | Frederich
20 # | 52125-277 | 2020-02-03 15:04:57 | Veal - Tenderloin, Untrimmed | 3635.75 | Pernell
21 # | 69128-001 | 2019-03-23 00:00:00 | Juice - Lemon | 2485.2 | Berenice
22 # | 0049-0032 | 2020-02-03 15:05:27 | Carbonated Water - Blackberry | 6652.19 | Morganne
23 # | 52343-028 | 2019-12-18 00:00:00 | Tomatoes - Diced, Canned | 3800.76 | Andree
24 # 1000 rows in set (0.25 sec)
25
26
27 CREATE VIEW tickets_786 AS (SELECT v.clave, v.fecha, a.nombre producto, a.precio, concat(e.nombre,
    ' ', e.apellido_paterno) empleado FROM venta v JOIN empleado e ON v.id_empleado=e.id_empleado
    JOIN articulo a ON v.id_articulo=a.id_articulo);
28 # Query OK, 0 rows affected (0.09 sec)
29
30
31 SELECT * FROM tickets_786;
32 # Same as the first query
33
34
35 SELECT clave, round(sum(precio),2) total FROM tickets_786 GROUP BY clave;
36 # +-----+-----+
37 # | clave          | total          |
38 # +-----+-----+
39 # | 0228-3661 | 3714.37 |
40 # | 52125-277 | 340582.65 |
41 # | 0049-0032 | 321524.61 |
42 # | 13107-062 | 249071.46 |
43 # | 47335-894 | 223650.32 |
44 # | 51655-951 | 190821.21 |
45 # | 52380-1865 | 162361.13 |

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46 # | 69128-001 | 174310.76 |
47 # | 52343-028 | 150970.75 |
48 # | 68040-706 | 131078.51 |
49 # | 66336-030 | 102351.64 |
50 # | 47682-146 | 124106.79 |
51 # | 60760-353 | 104536.46 |
52 # 169 rows in set (0.08 sec)
```

2. Retos

```
1 SELECT clave, nombre, apellido_paterno FROM venta AS v JOIN empleado AS e ON v.id_empleado=e.
   id_empleado ORDER BY clave;
2 # +-----+-----+-----+
3 # | clave      | nombre      | apellido_paterno |
4 # +-----+-----+-----+
5 # | 0002-8149 | Leonidas    | Junkinson         |
6 # | 0002-8149 | Leslie     | Cuvley            |
7 # | 0002-8149 | Edee       | Billin            |
8 # | 0002-8149 | Jillie     | Corter            |
9 # | 0002-8149 | Sydney     | Woolway           |
10 # | 0002-8149 | Aguistin   | Richarz           |
11 # | 0002-8149 | Sigfrid    | Teal              |
12 # | 0002-8149 | Rebecka    | Rushworth        |
13 # | 0002-8149 | Nora       | O'Suaird          |
14 # | 0002-8149 | Luise      | Lennard            |
15 # | 0002-8149 | Gustie     | Gryglewski        |
16 # | 0002-8149 | Petr       | Skedgell           |
17 # 1000 rows in set (0.16 sec)
18
19
20 SELECT clave, nombre FROM venta AS v JOIN articulo AS a ON v.id_articulo=a.id_articulo ORDER BY
   clave;
21 # +-----+-----+
22 # | clave      | nombre      |
23 # +-----+-----+
24 # | 0002-8149 | Sprouts - Pea |
25 # | 0002-8149 | Wine - Saint - Bris 2002, Sauv |
26 # | 0002-8149 | Sauce Tomato Pouch |
27 # | 0002-8149 | Wine - Montecillo Rioja Crianza |
28 # | 0002-8149 | Yokaline     |
29 # | 0002-8149 | Marsala - Sperone, Fine, D.o.c. |
30 # | 0002-8149 | Glaze - Clear |
31 # | 0002-8149 | Beans - Green |
32 # | 0002-8149 | Water, Tap   |
33 # | 0002-8149 | Butter Sweet |
34 # | 0002-8149 | Sour Puss - Tangerine |
35 # | 0002-8149 | Bread - White, Sliced |
36 # | 0002-8149 | Juice - Orange 1.89l |
37 # | 0008-0833 | Ice Cream Bar - Drumstick |
38 # | 0009-0347 | Frangelico   |
39 # | 0019-9888 | Shrimp - 16 - 20 Cooked, Peeled |
40 # | 0023-9177 | Rabbit - Saddles |
41 # 1000 rows in set (0.16 sec)
42
43
44 SELECT clave, round(sum(precio),1) AS total FROM venta AS v JOIN articulo AS a ON v.id_articulo=a.
   id_articulo GROUP BY clave ORDER BY clave;
45 # +-----+-----+
46 # | clave      | total      |
47 # +-----+-----+
48 # | 0002-8149 | 38642.6    |
49 # | 0008-0833 | 862.6      |
50 # | 0009-0347 | 6879.6     |
51 # | 0019-9888 | 178.6      |
52 # | 0023-9177 | 3891.9     |
53 # | 0049-0032 | 321524.6   |
54 # | 0065-0396 | 5572       |
55 # | 0067-5080 | 1675.5     |
56 # | 0067-6122 | 87221.9    |
57 # | 0069-1001 | 5382.4     |
58 # | 0074-6633 | 2882.7     |
59 # | 0075-2915 | 2799.8     |
60 # 169 rows in set (0.08 sec)

1 CREATE VIEW puestos_786 AS SELECT concat(e.nombre, ' ', e.apellido_paterno), p.nombre FROM
   empleado e JOIN puesto p ON e.id_puesto=p.id_puesto;
2 # Query OK, 0 rows affected (0.09 sec)
3
4
```

```

5 SELECT * FROM puestos_786;
6 # +-----+-----+
7 # | concat(e.nombre, ' ', e.apellido_paterno) | nombre |
8 # +-----+-----+
9 # | Enrichetta Bodechon | Product Engineer |
10 # | Morey Bowskill | Budget/Accounting Analyst IV |
11 # | Jeannette Potes | Occupational Therapist |
12 # | Cassey Womersley | Financial Advisor |
13 # | Gnni Risom | Physical Therapy Assistant |
14 # | Lisle Carlsson | Marketing Assistant |
15 # | Andre Theurer | Tax Accountant |
16 # | Land Locksley | Product Engineer |
17 # | Nikki Fayerbrother | Sales Associate |
18 # 1000 rows in set (0.17 sec)
19
20
21 CREATE VIEW empleado_articulo_786 AS SELECT v.clave, concat(e.nombre, ' ', e.apellido_paterno)
    nombre, a.nombre articulo FROM venta v JOIN empleado e ON v.id_empleado=e.id_empleado JOIN
    articulo a ON v.id_articulo=a.id_articulo ORDER BY v.clave;
22 # Query OK, 0 rows affected (0.09 sec)
23
24
25 SELECT * FROM empleado_articulo_786;
26 # +-----+-----+-----+
27 # | clave | nombre | articulo |
28 # +-----+-----+-----+
29 # | 0002-8149 | Leonidas Junkinson | Sprouts - Pea |
30 # | 0002-8149 | Leslie Cuvley | Wine - Saint - Bris 2002, Sauv |
31 # | 0002-8149 | Edee Billin | Sauce Tomato Pouch |
32 # | 0002-8149 | Jillie Corter | Wine - Montecillo Rioja Crianza |
33 # | 0002-8149 | Sydney Woolway | Yokaline |
34 # | 0002-8149 | Agustin Richarz | Marsala - Sperone, Fine, D.o.c. |
35 # | 0002-8149 | Sigfrid Teal | Glaze - Clear |
36 # | 0002-8149 | Rebecca Rushworth | Beans - Green |
37 # | 0002-8149 | Nora O'Suaird | Water, Tap |
38 # | 0002-8149 | Luise Lennard | Butter Sweet |
39 # | 0002-8149 | Gustie Gryglewski | Sour Puss - Tangerine |
40 # | 0002-8149 | Petr Skedgell | Bread - White, Sliced |
41 # | 0002-8149 | Doti Mc Kellen | Juice - Orange 1.89l |
42 # | 0008-0833 | Kain Glassopp | Ice Cream Bar - Drumstick |
43 # | 0009-0347 | Alleyn Cornehl | Frangelico |
44 # | 0019-9888 | Rickie Arnaldy | Shrimp - 16 - 20 Cooked, Peeled |
45 # | 0023-9177 | Bethena Joly | Rabbit - Saddles |
46 # | 0049-0032 | Maryellen Parkisson | Beef - Rib Roast, Capless |
47 # | 0049-0032 | Courtney Harston | Corn Meal |
48 # | 0049-0032 | Rosalinde Livock | Smoked Tongue |
49 # | 0049-0032 | Mignonne Baszniak | Filter - Coffee |
50 # | 0049-0032 | Morganne Curley | Carbonated Water - Blackberry |
51 # | 0049-0032 | Emalia Stirrip | Curry Powder |
52 # | 0049-0032 | Shurlocke Pyford | Sherbet - Raspberry |
53 # | 0049-0032 | Roger Hounihan | Beer - Sleemans Honey Brown |
54 # | 0049-0032 | Imojean Cowl | Huck Towels White |
55 # 1000 rows in set (0.24 sec)
56
57
58 CREATE VIEW puesto_ventas_786 AS SELECT p.nombre, count(v.clave) total FROM venta v JOIN empleado
    e ON v.id_empleado=e.id_empleado JOIN puesto p ON e.id_puesto=p.id_puesto GROUP BY p.nombre;
59 # Query OK, 0 rows affected (0.09 sec)
60
61
62 SELECT * FROM puesto_ventas_786 ORDER BY total DESC LIMIT 1;
63 # +-----+-----+
64 # | nombre | total |
65 # +-----+-----+
66 # | Physical Therapy Assistant | 23 |
67 # +-----+-----+
68 # 1 row in set (0.08 sec)

```

3. Ejercicio

```

1 USE classicmodels;
2
3 # 1
4 SELECT o.orderNumber, sum(quantityOrdered) FROM orders o JOIN orderdetails od ON o.orderNumber=od.
   orderNumber GROUP BY o.orderNumber;
5 # +-----+
6 # | orderNumber | sum(quantityOrdered) |
7 # +-----+
8 # |      10100 |          151 |
9 # |      10101 |          142 |
10 # |      10102 |           80 |
11 # |      10103 |         541 |
12 # |      10104 |         443 |
13 # |      10105 |         545 |
14 # |      10106 |         675 |
15 # |      10107 |         229 |
16 # |      10108 |         561 |
17 # |      10109 |         212 |
18 # |      10110 |         570 |
19 # |      10111 |         217 |
20 # |      10112 |          52 |
21 # |      10113 |         143 |
22 # |      10114 |         351 |
23 # 326 rows in set (0.09 sec)
24
25
26 # 2
27 SELECT o.orderNumber, o.status, sum(quantityOrdered * priceEach) total FROM orders o JOIN
   orderdetails od ON o.orderNumber=od.orderNumber GROUP BY o.orderNumber, o.status;
28 # +-----+-----+-----+
29 # | orderNumber | status      | total      |
30 # +-----+-----+-----+
31 # |      10100 | Shipped     | 10223.83 |
32 # |      10101 | Shipped     | 10549.01 |
33 # |      10102 | Shipped     |  5494.78 |
34 # |      10103 | Shipped     | 50218.95 |
35 # |      10104 | Shipped     | 40206.20 |
36 # |      10105 | Shipped     | 53959.21 |
37 # |      10106 | Shipped     | 52151.81 |
38 # |      10107 | Shipped     | 22292.62 |
39 # |      10108 | Shipped     | 51001.22 |
40 # |      10109 | Shipped     | 25833.14 |
41 # |      10110 | Shipped     | 48425.69 |
42 # |      10111 | Shipped     | 16537.85 |
43 # 326 rows in set (0.09 sec)
44
45
46 # 3
47 SELECT o.orderNumber, requiredDate, orderLineNumber, p.productName, quantityOrdered, priceEach
   FROM orders o JOIN orderdetails od ON o.orderNumber=od.orderNumber JOIN products p ON od.
   productCode=p.productCode;
48 # +-----+
49 # | orderNumber | requiredDate | orderLineNumber | productName |
   quantityOrdered | priceEach |
50 # +-----+
51 # |      10100 | 2003-01-13 | 3 | 1917 Grand Touring Sedan |
   30 | 136.00 |
52 # |      10100 | 2003-01-13 | 2 | 1911 Ford Town Car |
   50 |  55.09 |
53 # |      10100 | 2003-01-13 | 4 | 1932 Alfa Romeo 8C2300 Spider Sport |
   22 |  75.46 |
54 # |      10100 | 2003-01-13 | 1 | 1936 Mercedes Benz 500k Roadster |
   49 |  35.29 |
55 # |      10101 | 2003-01-18 | 4 | 1932 Model A Ford J-Coupe |
   25 | 108.06 |

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56 # | 10101 | 2003-01-18 | 1 | 1928 Mercedes-Benz SSK |
57 # | 10101 | 2003-01-18 | 3 | 1939 Chevrolet Deluxe Coupe |
58 # | 10101 | 2003-01-18 | 2 | 1938 Cadillac V-16 Presidential Limousine |
59 # | 10102 | 2003-01-18 | 2 | 1937 Lincoln Berline |
60 # | 10102 | 2003-01-18 | 1 | 1936 Mercedes-Benz 500K Special Roadster |
61 # | 10103 | 2003-02-07 | 11 | 1952 Alpine Renault 1300 |
62 # | 10103 | 2003-02-07 | 4 | 1962 LanciaA Delta 16V |
63 # | 10103 | 2003-02-07 | 8 | 1958 Setra Bus |
64 # | 10103 | 2003-02-07 | 10 | 1940 Ford Pickup Truck |
65 # | 10103 | 2003-02-07 | 2 | 1926 Ford Fire Engine |
66 # | 10103 | 2003-02-07 | 12 | 1913 Ford Model T Speedster |
67 # | 10103 | 2003-02-07 | 14 | 1934 Ford V8 Coupe |
68 # | 10103 | 2003-02-07 | 13 | 18th Century Vintage Horse Carriage |
69 # | 10103 | 2003-02-07 | 16 | 1917 Maxwell Touring Car |
70 # | 10103 | 2003-02-07 | 5 | 1940s Ford truck |
71 # | 10103 | 2003-02-07 | 9 | 1939 Cadillac Limousine |
72 # | 10103 | 2003-02-07 | 1 | 1962 Volkswagen Microbus |
73 # | 10103 | 2003-02-07 | 15 | 1936 Chrysler Airflow |
74 # 2996 rows in set (0.34 sec)
75
76
77 # 4
78 SELECT o.orderNumber, p.productName, MSRP, priceEach FROM orders o JOIN orderdetails od ON o.
    orderNumber=od.orderNumber JOIN products p ON od.productCode=p.productCode;
79 # +-----+-----+-----+-----+
80 # | orderNumber | productName | MSRP | priceEach |
81 # +-----+-----+-----+-----+
82 # | 10123 | 1965 Aston Martin DB5 | 124.44 | 120.71 |
83 # | 10123 | 1999 Indy 500 Monte Carlo SS | 132.00 | 114.84 |
84 # | 10123 | 1948 Porsche Type 356 Roadster | 141.28 | 117.26 |
85 # | 10123 | 1966 Shelby Cobra 427 S/C | 50.31 | 43.27 |
86 # | 10298 | 1996 Moto Guzzi 1100i | 118.94 | 105.86 |
87 # | 10298 | 1936 Harley Davidson El Knucklehead | 60.57 | 60.57 |
88 # | 10345 | 1938 Cadillac V-16 Presidential Limousine | 44.80 | 38.98 |
89 # | 10124 | 1917 Grand Touring Sedan | 170.00 | 153.00 |
90 # | 10124 | 1911 Ford Town Car | 60.54 | 58.12 |
91 # | 10124 | 1932 Model A Ford J-Coupe | 127.13 | 111.87 |
92 # | 10124 | 1932 Alfa Romeo 8C2300 Spider Sport | 92.03 | 75.46 |
93 # | 10124 | 1957 Ford Thunderbird | 71.27 | 66.28 |
94 # | 10124 | 1970 Chevy Chevelle SS 454 | 73.49 | 62.47 |
95 # | 10124 | 1939 Chevrolet Deluxe Coupe | 33.19 | 30.53 |
96 # | 10124 | 1938 Cadillac V-16 Presidential Limousine | 44.80 | 36.29 |
97 # | 10124 | 1949 Jaguar XK 120 | 90.87 | 74.51 |
98 # | 10124 | 1952 Citroen-15CV | 117.44 | 93.95 |
99 # 2996 rows in set (0.34 sec)
100
101
102 # 5
103 SELECT c.customerNumber, customerName, orderNumber, status FROM customers c LEFT JOIN orders o ON
    c.customerNumber=o.customerNumber;
104 # +-----+-----+-----+-----+
105 # | customerNumber | customerName | orderNumber | status |
106 # +-----+-----+-----+-----+

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107 # | 103 | Atelier graphique | 10123 | Shipped |
108 # | 103 | Atelier graphique | 10298 | Shipped |
109 # | 103 | Atelier graphique | 10345 | Shipped |
110 # | 112 | Signal Gift Stores | 10124 | Shipped |
111 # | 112 | Signal Gift Stores | 10278 | Shipped |
112 # | 112 | Signal Gift Stores | 10346 | Shipped |
113 # | 114 | Australian Collectors, Co. | 10120 | Shipped |
114 # | 114 | Australian Collectors, Co. | 10125 | Shipped |
115 # | 114 | Australian Collectors, Co. | 10223 | Shipped |
116 # | 114 | Australian Collectors, Co. | 10342 | Shipped |
117 # | 114 | Australian Collectors, Co. | 10347 | Shipped |
118 # | 119 | La Rochelle Gifts | 10275 | Shipped |
119 # | 119 | La Rochelle Gifts | 10315 | Shipped |
120 # | 119 | La Rochelle Gifts | 10375 | Shipped |
121 # | 119 | La Rochelle Gifts | 10425 | In Process |
122 # | 121 | Baane Mini Imports | 10103 | Shipped |
123 # | 121 | Baane Mini Imports | 10158 | Shipped |
124 # | 121 | Baane Mini Imports | 10309 | Shipped |
125 # | 121 | Baane Mini Imports | 10325 | Shipped |
126 # | 124 | Mini Gifts Distributors Ltd. | 10113 | Shipped |
127 # 350 rows in set (0.17 sec)
128
129
130 # 6
131 SELECT c.customerNumber, customerName FROM customers c LEFT JOIN orders o ON c.customerNumber=o.
    customerNumber WHERE orderNumber IS NULL;
132 # +-----+-----+-----+-----+-----+
133 # | customerNumber | customerName |
134 # +-----+-----+-----+-----+-----+
135 # | 125 | Havel & Zbyszek Co |
136 # | 168 | American Souvenirs Inc |
137 # | 169 | Porto Imports Co. |
138 # | 206 | Asian Shopping Network, Co |
139 # | 223 | Naturalmente Autos |
140 # | 237 | ANG Resellers |
141 # | 247 | Messner Shopping Network |
142 # | 273 | Franken Gifts, Co |
143 # | 293 | BG&E Collectables |
144 # | 303 | Schuyler Imports |
145 # | 307 | Der Hund Imports |
146 # | 335 | Cramer Spezialitäten, Ltd |
147 # | 348 | Asian Treasures, Inc. |
148 # | 356 | SAR Distributors, Co |
149 # | 361 | Kommission Auto |
150 # | 369 | Lisboa Souvenirs, Inc |
151 # | 376 | Precious Collectables |
152 # | 409 | Stuttgart Collectable Exchange |
153 # | 443 | Feuer Online Stores, Inc |
154 # | 459 | Warburg Exchange |
155 # | 465 | Anton Designs, Ltd. |
156 # | 477 | Mit Vergnügen & Co. |
157 # | 480 | Kremlin Collectables, Co. |
158 # | 481 | Raanan Stores, Inc |
159 # +-----+-----+-----+-----+-----+
160 # 24 rows in set (0.08 sec)
161
162
163 # 7
164 SELECT lastName, firstName, customerName, checkNumber, amount FROM employees e LEFT JOIN customers
    c ON e.employeeNumber=c.salesRepEmployeeNumber LEFT JOIN payments ON payments.customerNumber=
    c.customerNumber ORDER BY customerName, checkNumber;
165 # +-----+-----+-----+-----+-----+
166 # | lastName | firstName | customerName | checkNumber | amount |
167 # +-----+-----+-----+-----+-----+
168 # | Murphy | Diane | NULL | NULL | NULL |
169 # | Patterson | Mary | NULL | NULL | NULL |
170 # | Firrelli | Jeff | NULL | NULL | NULL |
171 # | Patterson | William | NULL | NULL | NULL |
172 # | Bondur | Gerard | NULL | NULL | NULL |
173 # | Bow | Anthony | NULL | NULL | NULL |
174 # | King | Tom | NULL | NULL | NULL |

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175 # | Kato | Yoshimi | NULL | NULL | NULL |
176 # | Hernandez | Gerard | Alpha Cognac | AF40894 | 33818.34 |
177 # | Hernandez | Gerard | Alpha Cognac | HR224331 | 12432.32 |
178 # | Hernandez | Gerard | Alpha Cognac | KI744716 | 14232.70 |
179 # | Tseng | Foon Yue | American Souvenirs Inc | NULL | NULL |
180 # | Castillo | Pamela | Amica Models & Co. | IJ399820 | 33924.24 |
181 # | Castillo | Pamela | Amica Models & Co. | NE404084 | 48298.99 |
182 # | Fixter | Andy | Anna's Decorations, Ltd | EM979878 | 27083.78 |
183 # | Fixter | Andy | Anna's Decorations, Ltd | KM841847 | 38547.19 |
184 # | Fixter | Andy | Anna's Decorations, Ltd | LE432182 | 41554.73 |
185 # | Fixter | Andy | Anna's Decorations, Ltd | OJ819725 | 29848.52 |
186 # 283 rows in set (0.17 sec)
187
188 # 8
189 SELECT c.customerNumber, customerName, orderNumber, status FROM customers c RIGHT JOIN orders o ON
c.customerNumber=o.customerNumber;
190
191 # +-----+-----+-----+-----+-----+
191 # | customerNumber | customerName | orderNumber | status |
192 # +-----+-----+-----+-----+-----+
193 # | 363 | Online Diecast Creations Co. | 10100 | Shipped |
194 # | 128 | Blauer See Auto, Co. | 10101 | Shipped |
195 # | 181 | Vitachrome Inc. | 10102 | Shipped |
196 # | 121 | Baane Mini Imports | 10103 | Shipped |
197 # | 141 | Euro+ Shopping Channel | 10104 | Shipped |
198 # | 145 | Danish Wholesale Imports | 10105 | Shipped |
199 # | 278 | Rovelli Gifts | 10106 | Shipped |
200 # | 131 | Land of Toys Inc. | 10107 | Shipped |
201 # | 385 | Cruz & Sons Co. | 10108 | Shipped |
202 # | 486 | Motor Mint Distributors Inc. | 10109 | Shipped |
203 # | 187 | AV Stores, Co. | 10110 | Shipped |
204 # | 129 | Mini Wheels Co. | 10111 | Shipped |
205 # | 144 | Volvo Model Replicas, Co | 10112 | Shipped |
206 # | 124 | Mini Gifts Distributors Ltd. | 10113 | Shipped |
207 # 326 rows in set (0.17 sec)
208
209
210 SELECT c.customerNumber, customerName FROM customers c RIGHT JOIN orders o ON c.customerNumber=o.
customerNumber WHERE orderNumber IS NULL;
211 # Empty set (0.08 sec)
212
213
214 SELECT lastName, firstName, customerName, checkNumber, amount FROM employees e RIGHT JOIN
customers c ON e.employeeNumber=c.salesRepEmployeeNumber LEFT JOIN payments ON payments.
customerNumber=c.customerNumber ORDER BY customerName, checkNumber;
215 # +-----+-----+-----+-----+-----+
216 # | lastName | firstName | customerName | checkNumber | amount |
217 # +-----+-----+-----+-----+-----+
218 # | Hernandez | Gerard | Alpha Cognac | AF40894 | 33818.34 |
219 # | Hernandez | Gerard | Alpha Cognac | HR224331 | 12432.32 |
220 # | Hernandez | Gerard | Alpha Cognac | KI744716 | 14232.70 |
221 # | Tseng | Foon Yue | American Souvenirs Inc | NULL | NULL |
222 # | Castillo | Pamela | Amica Models & Co. | IJ399820 | 33924.24 |
223 # | Castillo | Pamela | Amica Models & Co. | NE404084 | 48298.99 |
224 # | NULL | NULL | ANG Resellers | NULL | NULL |
225 # | Fixter | Andy | Anna's Decorations, Ltd | EM979878 | 27083.78 |
226 # | Fixter | Andy | Anna's Decorations, Ltd | KM841847 | 38547.19 |
227 # | Fixter | Andy | Anna's Decorations, Ltd | LE432182 | 41554.73 |
228 # | Fixter | Andy | Anna's Decorations, Ltd | OJ819725 | 29848.52 |
229 # | NULL | NULL | Anton Designs, Ltd. | NULL | NULL |
230 # | NULL | NULL | Asian Shopping Network, Co | NULL | NULL |
231 # | NULL | NULL | Asian Treasures, Inc. | NULL | NULL |
232 # 297 rows in set (0.17 sec)
233
234 # 9
235 # En un inicio no se pudo ejecutar el comando ya que arrojaba mensajes como:
236 CREATE VIEW dos_786 AS SELECT o.orderNumber, o.status, sum(quantityOrdered * priceEach) total FROM
orders o JOIN orderdetails od ON o.orderNumber=od.orderNumber GROUP BY o.orderNumber, o.
status;
237 SELECT*FROM dos_786;
238 # +-----+-----+-----+-----+
239 # | orderNumber | status | total |

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240 # +-----+-----+-----+
241 # |      10100 | Shipped | 10223.83 |
242 # |      10101 | Shipped | 10549.01 |
243 # |      10102 | Shipped | 5494.78 |
244 # |      10103 | Shipped | 50218.95 |
245 # |      10104 | Shipped | 40206.20 |
246 # |      10105 | Shipped | 53959.21 |
247 # |      10106 | Shipped | 52151.81 |
248 # |      10107 | Shipped | 22292.62 |
249 # |      10108 | Shipped | 51001.22 |
250 # |      10109 | Shipped | 25833.14 |
251 # |      10110 | Shipped | 48425.69 |
252 # |      10111 | Shipped | 16537.85 |
253 # |      10112 | Shipped | 7674.94 |
254 # |      10113 | Shipped | 11044.30 |
255 # 326 rows in set (0.09 sec)
256
257
258 CREATE VIEW seis_786 AS SELECT c.customerNumber, customerName FROM customers c LEFT JOIN orders o
    ON c.customerNumber=o.customerNumber WHERE orderNumber IS NULL;
259 SELECT*FROM seis_786;
260 # +-----+-----+-----+
261 # | customerNumber | customerName |
262 # +-----+-----+-----+
263 # |      125 | Havel & Zbyszek Co |
264 # |      168 | American Souvenirs Inc |
265 # |      169 | Porto Imports Co. |
266 # |      206 | Asian Shopping Network, Co |
267 # |      223 | Naturalmente Autos |
268 # |      237 | ANG Resellers |
269 # |      247 | Messner Shopping Network |
270 # |      273 | Franken Gifts, Co |
271 # |      293 | BG&E Collectables |
272 # |      303 | Schuyler Imports |
273 # |      307 | Der Hund Imports |
274 # |      335 | Cramer Spezialitäten, Ltd |
275 # |      348 | Asian Treasures, Inc. |
276 # |      356 | SAR Distributors, Co |
277 # |      361 | Kommission Auto |
278 # |      369 | Lisboa Souvenirs, Inc |
279 # |      376 | Precious Collectables |
280 # |      409 | Stuttgart Collectable Exchange |
281 # |      443 | Feuer Online Stores, Inc |
282 # |      459 | Warburg Exchange |
283 # |      465 | Anton Designs, Ltd. |
284 # |      477 | Mit Vergnügen & Co. |
285 # |      480 | Kremlin Collectables, Co. |
286 # |      481 | Raanan Stores, Inc |
287 # +-----+-----+-----+
288 # 24 rows in set (0.09 sec)
289
290 CREATE VIEW siete_786 AS SELECT lastName, firstName, customerName, checkNumber, amount FROM
    employees e LEFT JOIN customers c ON e.employeeNumber=c.salesRepEmployeeNumber LEFT JOIN
    payments ON payments.customerNumber=c.customerNumber ORDER BY customerName, checkNumber;
291 SELECT*FROM siete_786;
292 # +-----+-----+-----+-----+-----+
293 # | lastName | firstName | customerName | checkNumber | amount |
294 # +-----+-----+-----+-----+-----+
295 # | Murphy | Diane | NULL | NULL | NULL |
296 # | Patterson | Mary | NULL | NULL | NULL |
297 # | Firrelli | Jeff | NULL | NULL | NULL |
298 # | Patterson | William | NULL | NULL | NULL |
299 # | Bondur | Gerard | NULL | NULL | NULL |
300 # | Bow | Anthony | NULL | NULL | NULL |
301 # | King | Tom | NULL | NULL | NULL |
302 # | Kato | Yoshimi | NULL | NULL | NULL |
303 # | Hernandez | Gerard | Alpha Cognac | AF40894 | 33818.34 |
304 # | Hernandez | Gerard | Alpha Cognac | HR224331 | 12432.32 |
305 # 283 rows in set (0.17 sec)

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