# Lab 7

## Objectives

In this lab you will practice using the JOIN clause with the SELECT statement on a new database.

## Exercise

- Download and open the **classicmodels** script (as an SQL file).
- The *classicmodels* database has 5 tables: *customer*, *productlines*, *product*, *orders*, and *orderdetails*.
- Open the SQL script in MySQL Workbench.
- Open a new tab and save it as Review JOIN Exercise. Enter (and execute) the following commands:

```
USE classicmodels; /*Select the Classicmodels database*/
SHOW TABLES; /*List all the tables*/
```

To do:

1. Describe each table.
2. Return the customer name, contact name (concatenated) and phone number for all customers. Sort in alphabetical order of customer name.

| customerNumber | customerName | Name | phone |
|---|---|---|---|
| 242 | Alpha Cognac | Annette  Roulet | 61.77.6555 |
| 168 | American Souvenirs Inc | Keith Franco | 2035557845 |
| 249 | Amica Models & Co. | Paolo Accorti | 011-4988555 |
| 237 | ANG Resellers | Alejandra  Camino | (91) 745 6555 |
| 276 | Anna's Decorations, Ltd | Anna O'Hara | 02 9936 8555 |
| 465 | Anton Designs, Ltd. | Carmen Anton | +34 913 728555 |

3. Return the customer name, contact name (concatenated), addressLine1, addressLine2, city, state, and phone number for all customers from Ireland. Again sort in alphabetical order of customer name.

| customerName | Name | phone |
|---|---|---|
| Asian Treasures, Inc. | Patricia  McKenna | 2967 555 |
| Clover Collections, Co. | Dean Cassidy | +353 1862 1555 |

4. Return the customer name, order number and order date for all orders. Sort in alphabetical order of customer name and in descending order of order date.

| customerName | orderNumber | orderDate |
|---|---|---|
| Alpha Cognac | 10397 | 2016-03-28 |
| Alpha Cognac | 10178 | 2014-11-08 |
| Alpha Cognac | 10136 | 2014-07-04 |
| Amica Models & Co. | 10293 | 2015-09-09 |
| Amica Models & Co. | 10280 | 2015-08-17 |
| Anna's Decorations, Ltd | 10391 | 2016-03-09 |

5. Return the customer name and the number of orders made for each customer who has made an order. Sort in alphabetical order of customer name.

| customerName | Number of Orders |
|---|---|
| Alpha Cognac | 3 |
| Amica Models & Co. | 2 |
| Anna's Decorations, Ltd | 4 |
| Atelier graphique | 3 |
| Australian Collectables, Ltd | 3 |

6. Return the number of orders for customer (Baane Mini Imports). Label the output Number of Orders for Baane Mini Imports.

| Number of Orders for Baane Mini Imports |
|---|
| 4 |

7. Return the product name, description and product line for all products. Sort in alphabetical order of product name.

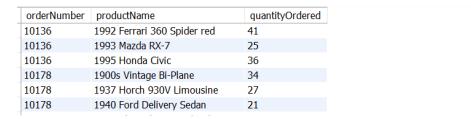| productName | productDescription | productLine |
|---|---|---|
| 18th century schooner | All wood with canvas sails. Man... | Ships |
| 18th Century Vintage Horse Car... | Hand crafted diecast-like metal ... | Vintage Cars |
| 1900s Vintage Bi-Plane | Hand crafted diecast-like metal ... | Planes |
| 1900s Vintage Tri-Plane | Hand crafted diecast-like metal ... | Planes |
| 1903 Ford Model A | Features opening trunk, worki... | Vintage Cars |
| 1904 Buick Runabout | Features opening trunk, worki... | Vintage Cars |

8. Return the product name, description, product line and text description for all products that include the term Chevrolet in the product name. Again, sort in alphabetical order of product name.

| productName | productDescription | productLine | textDescription |
|---|---|---|---|
| 1939 Chevrolet Deluxe Coupe | This 1:24 scale die-cast replica ... | Vintage Cars | Our Vintage Car models realisti... |
| 1941 Chevrolet Special Deluxe ... | Features opening hood, openin... | Vintage Cars | Our Vintage Car models realisti... |
| 1961 Chevrolet Impala | This 1:18 scale precision die-ca... | Classic Cars | Attention car enthusiasts: Make... |
| 1969 Chevrolet Camaro Z28 | 1969 Z/28 Chevy Camaro 1:24 ... | Classic Cars | Attention car enthusiasts: Make... |

9. Return the product name and quantity ordered for all products identified by order number 10124. Again, sort in alphabetical order of product name.

| productName | quantityOrdered |
|---|---|
| 1911 Ford Town Car | 42 |
| 1917 Grand Touring Sedan | 21 |
| 1932 Alfa Romeo 8C2300 Spid... | 36 |
| 1932 Model A Ford J-Coupe | 42 |
| 1936 Mercedes Benz 500k Road... | 46 |
| 1938 Cadillac V-16 Presidential ... | 22 |

10. Return the order number, product name and quantity ordered for all products ordered by customer identified by customerNumber 242. Sort in ascending order of order number and then product name.

| orderNumber | productName | quantityOrdered |
|---|---|---|
| 10136 | 1992 Ferrari 360 Spider red | 41 |
| 10136 | 1993 Mazda RX-7 | 25 |
| 10136 | 1995 Honda Civic | 36 |
| 10178 | 1900s Vintage Bi-Plane | 34 |
| 10178 | 1937 Horch 930V Limousine | 27 |
| 10178 | 1940 Ford Delivery Sedan | 21 |

11. Return the order number, product name and quantity ordered for all products ordered by customer Baane Mini Imports. Sort in ascending order of order number and then product name.

| orderNumber | productName | quantityOrdered |
|---|---|---|
| 10103 | 18th Century Vintage Horse Car... | 25 |
| 10103 | 1913 Ford Model T Speedster | 27 |
| 10103 | 1917 Maxwell Touring Car | 46 |
| 10103 | 1926 Ford Fire Engine | 22 |
| 10103 | 1934 Ford V8 Coupe | 35 |
| 10103 | 1936 Chrysler Airflow | 25 |

12. Return the customer name, order number and order date for all orders even if customers have placed no orders. Sort in alphabetical order of customer name and in descending order of order date.

| customerName | orderNumber | orderdate |
|---|---|---|
| Alpha Cognac | 10397 | 2016-03-28 |
| Alpha Cognac | 10178 | 2014-11-08 |
| Alpha Cognac | 10136 | 2014-07-04 |
| American Souvenirs Inc | NULL | NULL |
| Amica Models & Co. | 10293 | 2015-09-09 |
| Amica Models & Co. | 10280 | 2015-08-17 |

13. Return the customer name for all customers who have made no orders (orderNumber is NULL). Sort in alphabetical order of customer name.

| customerName |
| --- |
| American Souvenirs Inc |
| ANG Resellers |
| Anton Designs, Ltd. |
| Asian Shopping Network, Co |
| Asian Treasures, Inc. |
| BG&E Collectables |