

Practical 5 DBMS - JOINS

OUTPUT:

----- WELCOME -----

(base) lab1-pc18@lab1-pc18:~\$ sudo mysql

[sudo] password for lab1-pc18:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 7

Server version: 5.7.27-0ubuntu0.18.04.1 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases

-> ;

```
+-----+
| Database |
+-----+
| information_schema |
| AUCTION_P          |
| Auction           |
| CARS              |
| TRAIN_STATION     |
| college           |
| mysql             |
| onlineshopping    |
| performance_schema |
| pro               |
| sys               |
| vaibhav           |
| w3schools         |
+-----+
```

13 rows in set (0.01 sec)

mysql> use w3schools

Reading table information for completion of table and column names

You can turn off this feature to get a quicker startup with -A

Database changed

```
mysql> SELECT Orders.OrderID, Customers.CustomerName, Orders.OrderDate
-> FROM Orders
-> INNER JOIN Customers ON Orders.CustomerID=Customers.CustomerID;
```

OrderID	CustomerName	OrderDate
10248	Wilman Kala	1996-07-04
10249	Tradição Hipermercados	1996-07-05
10250	Hanari Carnes	1996-07-08
10251	Victuailles en stock	1996-07-08
10252	Suprêmes délices	1996-07-09
10253	Hanari Carnes	1996-07-10
10254	Chop-suey Chinese	1996-07-11
10255	Richter Supermarkt	1996-07-12
10256	Wellington Importadora	1996-07-15
10257	HILARIÓN-Abastos	1996-07-16
10258	Ernst Handel	1996-07-17
10259	Centro comercial Moctezuma	1996-07-18
10260	Old World Delicatessen	1996-07-19
10261	Que Delícia	1996-07-19
10262	Rattlesnake Canyon Grocery	1996-07-22
10263	Ernst Handel	1996-07-23
10264	Folk och fä HB	1996-07-24
10265	Blondel père et fils	1996-07-25
10266	Wartian Herkku	1996-07-26
10267	Frankenversand	1996-07-29
10268	GROSELLA-Restaurante	1996-07-30
10269	White Clover Markets	1996-07-31
10270	Wartian Herkku	1996-08-01
10271	Split Rail Beer & Ale	1996-08-01
10272	Rattlesnake Canyon Grocery	1996-08-02
10273	QUICK-Stop	1996-08-05
10274	Vins et alcools Chevalier	1996-08-06
10275	Magazzini Alimentari Riuniti	1996-08-07
10276	Tortuga Restaurante	1996-08-08
10277	Morgenstern Gesundkost	1996-08-09

REMOVED EXTRA ROWS TO REDUCE OUTPUT

```
+-----+-----+-----+
196 rows in set (0.00 sec)
```

```
mysql> SELECT Orders.OrderID, Customers.CustomerName, Orders.OrderDate
-> FROM Orders
-> INNER JOIN Customers ON Orders.CustomerID=Customers.CustomerID
-> LIMIT 20
-> ;
```

OrderID	CustomerName	OrderDate
10248	Wilman Kala	1996-07-04
10249	Tradição Hipermercados	1996-07-05
10250	Hanari Carnes	1996-07-08
10251	Victuailles en stock	1996-07-08
10252	Suprêmes délices	1996-07-09
10253	Hanari Carnes	1996-07-10
10254	Chop-suey Chinese	1996-07-11
10255	Richter Supermarkt	1996-07-12
10256	Wellington Importadora	1996-07-15
10257	HILARIÓN-Abastos	1996-07-16
10258	Ernst Handel	1996-07-17
10259	Centro comercial Moctezuma	1996-07-18
10260	Old World Delicatessen	1996-07-19
10261	Que Delícia	1996-07-19
10262	Rattlesnake Canyon Grocery	1996-07-22
10263	Ernst Handel	1996-07-23
10264	Folk och fä HB	1996-07-24
10265	Blondel père et fils	1996-07-25
10266	Wartian Herkku	1996-07-26
10267	Frankenversand	1996-07-29

20 rows in set (0.01 sec)

```
mysql> SELECT Orders.OrderID, Customers.CustomerName
-> FROM Orders
-> INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID
-> LIMIT 20;
```

OrderID	CustomerName
10308	Ana Trujillo Emparedados y helados
10365	Antonio Moreno Taquería
10355	Around the Horn
10383	Around the Horn

	10296	LILA-Supermercado	Speedy Express	
	10309	Hungry Owl All-Night Grocers	Speedy Express	
	10317	Lonesome Pine Restaurant	Speedy Express	
	10323	Königlich Essen	Speedy Express	

+-----+-----+-----+

20 rows in set (0.01 sec)

```
mysql> SELECT Customers.CustomerName, Orders.OrderID
-> FROM Customers
-> LEFT JOIN Orders ON Customers.CustomerID = Orders.CustomerID
-> ORDER BY Customers.CustomerName
-> LIMIT 20;
```

	CustomerName		OrderID	
	Alfreds Futterkiste		NULL	
	Ana Trujillo Emparedados y helados		10308	
	Antonio Moreno Taquería		10365	
	Around the Horn		10355	
	Around the Horn		10383	
	B's Beverages		10289	
	Berglunds snabbköp		10278	
	Berglunds snabbköp		10280	
	Berglunds snabbköp		10384	
	Blauer See Delikatessen		NULL	
	Blondel père et fils		10265	
	Blondel père et fils		10297	
	Blondel père et fils		10360	
	Blondel père et fils		10436	
	Bólido Comidas preparadas		10326	
	Bon app'		10331	
	Bon app'		10340	
	Bon app'		10362	
	Bottom-Dollar Marketse		10389	
	Bottom-Dollar Marketse		10410	

+-----+-----+-----+

20 rows in set (0.00 sec)

```
mysql> SELECT Orders.OrderID, Employees.LastName, Employees.FirstName
-> FROM Orders
-> RIGHT JOIN Employees ON Orders.EmployeeID = Employees.EmployeeID
-> ORDER BY Orders.OrderID
-> LIMIT 20;
```

```

+-----+-----+-----+
| OrderID | LastName | FirstName |
+-----+-----+-----+
| NULL | West | Adam |
| 10248 | Buchanan | Steven |
| 10249 | Suyama | Michael |
| 10250 | Peacock | Margaret |
| 10251 | Leverling | Janet |
| 10252 | Peacock | Margaret |
| 10253 | Leverling | Janet |
| 10254 | Buchanan | Steven |
| 10255 | Dodsworth | Anne |
| 10256 | Leverling | Janet |
| 10257 | Peacock | Margaret |
| 10258 | Davolio | Nancy |
| 10259 | Peacock | Margaret |
| 10260 | Peacock | Margaret |
| 10261 | Peacock | Margaret |
| 10262 | Callahan | Laura |
| 10263 | Dodsworth | Anne |
| 10264 | Suyama | Michael |
| 10265 | Fuller | Andrew |
| 10266 | Leverling | Janet |
+-----+-----+-----+
20 rows in set (0.01 sec)

```

```

mysql> SELECT Customers.CustomerName, Orders.OrderID
-> FROM Customers
-> FULL OUTER JOIN Orders ON Customers.CustomerID=Orders.CustomerID
-> ORDER BY Customers.CustomerName
-> LIMIT 20;

```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'OUTER JOIN Orders ON Customers.CustomerID=Orders.CustomerID ORDER BY Customers.C' at line 3

```

mysql> SELECT Customers.CustomerName, Orders.OrderID FROM Customers FULL OUTER JOIN
Orders ON Customers.CustomerID=Orders.CustomerID ORDER BY Customers.CustomerName LIMIT
20;

```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'OUTER JOIN Orders ON Customers.CustomerID=Orders.CustomerID ORDER BY Customers.C' at line 1

```

mysql> SELECT A.CustomerName AS CustomerName1, B.CustomerName AS CustomerName2, A.City
-> FROM Customers A, Customers B

```

```

-> WHERE A.CustomerID <> B.CustomerID
-> AND A.City = B.City
-> ORDER BY A.City
-> LIMIT 20;

```

CustomerName1	CustomerName2	City
Cactus Comidas para llevar	Rancho grande	Buenos Aires
Océano Atlántico Ltda.	Rancho grande	Buenos Aires
Rancho grande	Océano Atlántico Ltda.	Buenos Aires
Océano Atlántico Ltda.	Cactus Comidas para llevar	Buenos Aires
Rancho grande	Cactus Comidas para llevar	Buenos Aires
Cactus Comidas para llevar	Océano Atlántico Ltda.	Buenos Aires
Furia Bacalhau e Frutos do Mar	Princesa Isabel Vinhoss	Lisboa
Princesa Isabel Vinhoss	Furia Bacalhau e Frutos do Mar	Lisboa
Around the Horn	Seven Seas Imports	London
B's Beverages	Seven Seas Imports	London
Consolidated Holdings	Seven Seas Imports	London
Eastern Connection	Seven Seas Imports	London
North/South	Seven Seas Imports	London
Seven Seas Imports	Around the Horn	London
Around the Horn	B's Beverages	London
Consolidated Holdings	B's Beverages	London
Eastern Connection	B's Beverages	London
North/South	B's Beverages	London
Seven Seas Imports	B's Beverages	London
Around the Horn	North/South	London

20 rows in set (0.00 sec)

mysql>