

Table 1

```
CREATE table orders(O_Id INT(5),Orderno INT(5),P_Id INT(3));
```

```
DESC orders;
```

```
mysql> desc orders;
+-----+-----+-----+-----+-----+-----+
| Field | Type  | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| O_Id  | int(5) | YES  |     | NULL    |       |
| Orderno | int(5) | YES  |     | NULL    |       |
| P_Id  | int(3) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
INSERT INTO orders VALUES(1,77895,3);
```

```
INSERT INTO orders VALUES(2,44678,3);
```

```
INSERT into orders values(3,22456,1);
```

```
INSERT into orders values(4,24562,1);
```

```
INSERT into orders values(5,34764,15);
```

```
mysql> SELECT * FROM orders;
+-----+-----+-----+
| O_Id | Orderno | P_Id |
+-----+-----+-----+
| 1    | 77695   | 3    |
| 2    | 44678   | 3    |
| 3    | 22456   | 1    |
| 4    | 24562   | 1    |
| 5    | 34764   | 15   |
+-----+-----+-----+
5 rows in set (0.01 sec)
```

Table 2

```
CREATE table persons(p_Id INT(5),LASTNAME varchar(10),Firstname varchar(15), Address
varchar(20),city varchar(10));
```

```
mysql> desc persons;
```

Field	Type	Null	Key	Default	Extra
p_Id	int(5)	YES		NULL	
LASTNAME	varchar(10)	YES		NULL	
Firstname	varchar(15)	YES		NULL	
Address	varchar(20)	YES		NULL	
city	varchar(10)	YES		NULL	

```
5 rows in set (0.00 sec)
```

```
INSERT into persons values(1,'Hansen','Ola','Timoteivn 10','sadnes');
```

```
INSERT into persons values(2,'Svendson','Tove','Borgn 23','Sandnes');
```

```
INSERT into persons values(3,'Pettersen','Kari','Storgt 20','Stavanger');
```

```
mysql> SELECT * FROM persons;
```

p_Id	LASTNAME	Firstname	Address	city
1	Hansen	Ola	Timoteivn 10	sadnes
2	Svendson	Tove	Borgn 23	Sandnes
3	Pettersen	Kari	Storgt 20	Stavanger

```
3 rows in set (0.01 sec)
```

Left Join

```
SELECT persons.lastname,persons.firstname,orders.orderno
```

```
FROM persons
```

```
LEFT JOIN orders
```

```
ON persons.p_Id = orders.p_Id
```

```
ORDER BY persons.lastname;
```

```
-> ON persons.p_Id = orders.p_Id
->
-> ORDER BY persons.lastname;
```

lastname	firstname	orderno
Hansen	Ola	22456
Hansen	Ola	24562
Pettersen	Kari	77695
Pettersen	Kari	44678
Svendson	Tove	NULL

Full outer Join

```
SELECT persons.lastname, persons.firstname, orders.orderno
FROM persons
FULL OUTER JOIN orders
ON persons.p_Id = orders.p_Id
ORDER BY persons.lastname;
```

Right/Right Outer Join

```
SELECT persons.lastname, persons.firstname, orders.orderno
FROM persons
RIGHT OUTER JOIN orders
ON persons.p_Id = orders.p_Id
ORDER BY persons.lastname;
```

```
mysql> SELECT persons.lastname, persons.firstname, orders.orderno
->
-> FROM persons
->
-> RIGHT OUTER JOIN orders
->
-> ON persons.p_Id = orders.p_Id
->
-> ORDER BY persons.lastname;
```

lastname	firstname	orderno
NULL	NULL	34764
Hansen	Ola	22456
Hansen	Ola	24562
Pettersen	Kari	77695
Pettersen	Kari	44678

```
5 rows in set (0.02 sec)
```

Inner Join

```
SELECT persons.lastname, persons.firstname, orders.orderno
2 FROM persons
3 INNER JOIN orders
```

4 ON persons.p_Id = orders.p_Id
5 ORDER BY persons.lastname;

```
mysql> SELECT persons.lastname,persons.firstname,orders.orderno  
       BY persons.lastname;  
+-----+-----+-----+  
| lastname | firstname | orderno |  
+-----+-----+-----+  
| Hansen   | Ola       | 22456   |  
| Hansen   | Ola       | 24562   |  
| Pettersen | Kari      | 77695   |  
| Pettersen | Kari      | 44678   |  
+-----+-----+-----+  
4 rows in set (0.00 sec)
```