

Introduction to SQL and Basic Queries part 2

Inner Join

Left Join

Right Join

Full Join

SQL INNER JOIN

Table: Customers

customer_id	first_name
1	John
2	Robert
<u>3</u>	David
4	John
<u>5</u>	Betty

Table: Orders

order_id	amount	customer
1	200	10
2	500	<u>3</u>
3	300	6
4	800	<u>5</u>
5	150	8



customer_id	first_name	amount
3	David	500
5	Betty	800

```
SELECT Customers.customer_id, Customers.first_name, Orders.amount
FROM Customers
INNER JOIN Orders
ON Customers.customer_id = Orders.customer;
```


SQL LEFT JOIN

Table: Customers

customer_id	first_name
1	John
2	Robert
<u>3</u>	David
4	John
<u>5</u>	Betty

Table: Orders

order_id	amount	customer
1	200	10
2	500	<u>3</u>
3	300	6
4	800	<u>5</u>
5	150	8



customer_id	first_name	amount
1	John	
2	Robert	
3	David	500
4	John	
5	Betty	800

```
SELECT Customers.customer_id, Customers.first_name, Orders.item
FROM Customers
LEFT JOIN Orders
ON Customers.customer_id = Orders.customer_id;
```

SQL RIGHT JOIN

Table: Customers

customer_id	first_name
1	John
2	Robert
<u>3</u>	David
4	John
<u>5</u>	Betty

Table: Orders

order_id	amount	customer
1	200	10
2	500	<u>3</u>
3	300	6
4	800	<u>5</u>
5	150	8



customer_id	first_name	amount
3	David	500
5	Betty	800
		200
		300
		150

```
SELECT Customers.customer_id, Customers.first_name, Orders.amount  
FROM Customers  
RIGHT JOIN Orders  
ON Customers.customer_id = Orders.customer;
```

SQL FULL OUTER JOIN

Table: Customers

customer_id	first_name
1	John
2	Robert
3	David
4	John
5	Betty

Table: Orders

order_id	amount	customer
1	200	10
2	500	3
3	300	6
4	800	5
5	150	8



customer_id	first_name	amount
1	John	NULL
2	Robert	NULL
3	David	500
4	John	NULL
5	Betty	800
NULL	NULL	200
NULL	NULL	300
NULL	NULL	150

```
SELECT Customers.customer_id, Customers.first_name, Orders.amount  
FROM Customers  
FULL OUTER JOIN Orders  
ON Customers.customer_id = Orders.customer;
```