

# PostgreSQL - Advanced

# Data

## Department table

```
(1, 'IT'),  
(2, 'Management'),  
(3, 'IT'),  
(4, 'Support');
```

# Data

## Company table

```
(1, 'IBM', 2000000),  
(2, 'GOOGLE', 9000000),  
(3, 'Apple', 10000000);
```

# Data

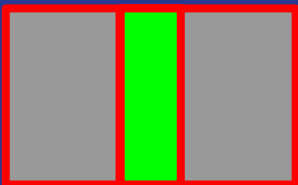
## Employee Table

```
(1, 'David', 'London', 3, 80000),  
(2, 'Emily', 'London', 3, 70000),  
(3, 'Peter', 'Paris', 3, 60000),  
(4, 'Ava', 'Paris', 3, 50000),  
(5, 'Penny', 'London', 2, 110000),  
(6, 'Jim', 'London', 2, 90000),  
(7, 'Amy', 'Rome', 4, 30000),  
(8, 'Cloe', 'London', 3, 110000);
```

# Joins

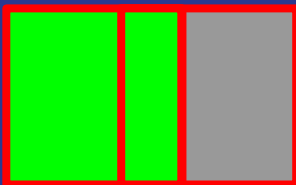
## Inner Join

Returns records that have matching values in both tables



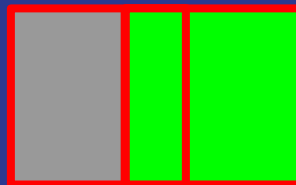
## Left Join

Returns all records from the left table, and the matched records from the right table



## Right Join

Returns all records from the right table, and the matched records from the left table



## Full Join

Returns all records when there is a match in either left or right table

