## Queries
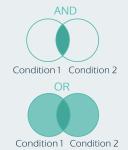
Basic commands to retrieve information

```
SELECT column1, column2
FROM table
WHERE condition
ORDER BY column1 ASC/DESC
LIMIT n;
```

- =, !=, >, <, >=, <=
- LIKE 'Se_en'
- LIKE 'A%'
- BETWEEN 1990 AND 2000
- IS NULL, IS NOT NULL

AND

Condition 1   Condition 2

OR

Condition 1   Condition 2

## Aggregate Functions

Calculations performed on multiple rows

- COUNT(column)
- SUM(column)
- MAX(column)
- MIN(column)
- AVG(column)
- ROUND(column, n)

```
SELECT column1, COUNT (column2)
FROM table
WHERE condition
GROUP BY 1
HAVING condition
ORDER BY 2
LIMIT n;
```
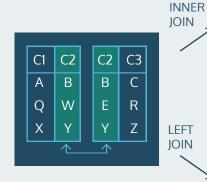
Notes:

## Multiple Tables
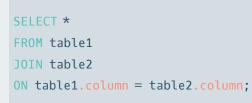
Join tables that have relationships with one another

### Primary Key vs Foreign Key

Notes:

| C1 | C2 | | C2 | C3 |
|----|----|--|----|----|
| A | B | | B | C |
| Q | W | | E | R |
| X | Y | | Y | Z |

INNER JOIN

| C1 | C2 | C3 |
|----|----|----|
| A | B | C |
| X | Y | Z |

```
SELECT *
FROM table1
JOIN table2
ON table1.column = table2.column;
```

LEFT JOIN

| C1 | C2 | C3 |
|----|----|----|
| A | B | C |
| Q | W |  |
| X | Y | Z |

```
SELECT *
FROM table1
LEFT JOIN table2
ON table1.column = table2.column;
```