DB

SELECT WHERE
IS NULL / IS NOT NULL
AND / OR
SUM / COUNT

🥇 **OBJECTIVES FOR TODAY** 🥇

✔ **GROUP BY**

✔ **SUM / COUNT** function

Display **all the data** of employees whose first name start with J

Database

```
employees

    id       first_name      last_name          dept

    127323   Michale         Robbin             57
    526689   Carlos          Snares             63
    843795   Enric           Dosio              57
    328717   Jhon            Snares             63
    444527   Joseph          Dosni              47
    659831   Zanifer         Emily              47
    847674   Kuleswar        Sitaraman          57
    748681   Henrey          Gabriel            47
    555935   Alex            Manuel             57
    539569   George          Mardy              27
    733843   Mario           Saule              63
    631548   Alan            Snappy             27
    839139   Maria           Foster             57
```

A
SELECT *
    FROM employees
       WHERE first_name= "J%";

C
SELECT *
    FROM employees
       WHERE first_name **LIKE** "J%";

B
SELECT *
    FROM employees
       WHERE first_name **LIKE** "%J";

D
SELECT *
    FROM employees
       WHERE first_name **STARTS** "J";

Display **all the data** of employees whose first name start with J

Database

```
employees

    id       first_name      last_name           dept

    127323   Michale         Robbin              57
    526689   Carlos          Snares              63
    843795   Enric           Dosio               57
    328717   Jhon            Snares              63
    444527   Joseph          Dosni               47
    659831   Zanifer         Emily               47
    847674   Kuleswar        Sitaraman           57
    748681   Henrey          Gabriel             47
    555935   Alex            Manuel              57
    539569   George          Mardy               27
    733843   Mario           Saule               63
    631548   Alan            Snappy              27
    839139   Maria           Foster              57
```

A **SELECT** *
        FROM employees
            WHERE first_name= "J%";

B **SELECT** *
        FROM employees
            WHERE first_name **LIKE** "%J";

C **SELECT** *
            FROM employees
                WHERE first_name **LIKE** "J%";

D **SELECT** *
        FROM employees
            WHERE first_name **STARTS** "J";

Display **all the data** of employees whose first name **ends** with J

Database

```
employees

    id        first_name      last_name          dept

    127323    Michale         Robbin             57
    526689    Carlos          Snares             63
    843795    Enric           Dosio              57
    328717    Jhon            Snares             63
    444527    Joseph          Dosni              47
    659831    Zanifer         Emily              47
    847674    Kuleswar        Sitaraman          57
    748681    Henrey          Gabriel            47
    555935    Alex            Manuel             57
    539569    George          Mardy              27
    733843    Mario           Saule              63
    631548    Alan            Snappy             27
    839139    Maria           Foster             57
```

A
SELECT *
FROM employees
WHERE first_name= "J%";

B
SELECT *
FROM employees
WHERE first_name **LIKE** "%J";

C
SELECT *
FROM employees
WHERE first_name **LIKE** "J%";

D
SELECT *
FROM employees
WHERE first_name **STARTS** "J";

Display **all the data** of employees whose first name **ends** with J

Database

employees

id	first_name	last_name	dept
127323	Michale	Robbin	57
526689	Carlos	Snares	63
843795	Enric	Dosio	57
328717	Jhon	Snares	63
444527	Joseph	Dosni	47
659831	Zanifer	Emily	47
847674	Kuleswar	Sitaraman	57
748681	Henrey	Gabriel	47
555935	Alex	Manuel	57
539569	George	Mardy	27
733843	Mario	Saule	63
631548	Alan	Snappy	27
839139	Maria	Foster	57

A
SELECT *
    FROM employees
        WHERE first_name= "J%";

C
SELECT *
    FROM employees
        WHERE first_name **LIKE** "J%";

B
SELECT *
    FROM employees
        WHERE first_name **LIKE** "%J";

D
SELECT *
    FROM employees
        WHERE first_name **STARTS** "J";

Display **the different countries** the customers come from

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	05021	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	05023	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany
7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Strasbourg	67000	France
8	Bólido Comidas preparadas	Martín Sommer	C/ Araquil, 67	Madrid	28023	Spain
9	Bon app'	Laurence Lebihans	12, rue des Bouchers	Marseille	13008	France
10	Bottom-Dollar Marketse	Elizabeth Lincoln	23 Tsawassen Blvd.	Tsawassen	T2F 8M4	Canada
11	B's Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK
12	Cactus Comidas para llevar	Patricio Simpson	Cerrito 333	Buenos Aires	1010	Argentina

A
SELECT Country
      FROM Customers
DISTINCT

C
DISTINCT SELECT Country
      FROM Customers

B
SELECT DISTINCT (Country**)**
      FROM Customers

D
Team don t know

Display **the different countries** the customers come from

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	05021	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	05023	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany
7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Strasbourg	67000	France
8	Bólido Comidas preparadas	Martín Sommer	C/ Araquil, 67	Madrid	28023	Spain
9	Bon app'	Laurence Lebihans	12, rue des Bouchers	Marseille	13008	France
10	Bottom-Dollar Marketse	Elizabeth Lincoln	23 Tsawassen Blvd.	Tsawassen	T2F 8M4	Canada
11	B's Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK
12	Cactus Comidas para llevar	Patricio Simpson	Cerrito 333	Buenos Aires	1010	Argentina

A   **SELECT** Country
        FROM Customers
DISTINCT

B   **SELECT DISTINCT (**Country**)**
        FROM Customers

C   **DISTINCT SELECT** Country
        FROM Customers

D   Team don t know

What you know

SELECT - WHERE ... OR ...AND...

ORDER BY

IN ...

DISTINCT

LIKE "%xxxx"

What you will learn here

GROUP BY

AVG
SUM
COUNT

Group By

Groups a set of rows
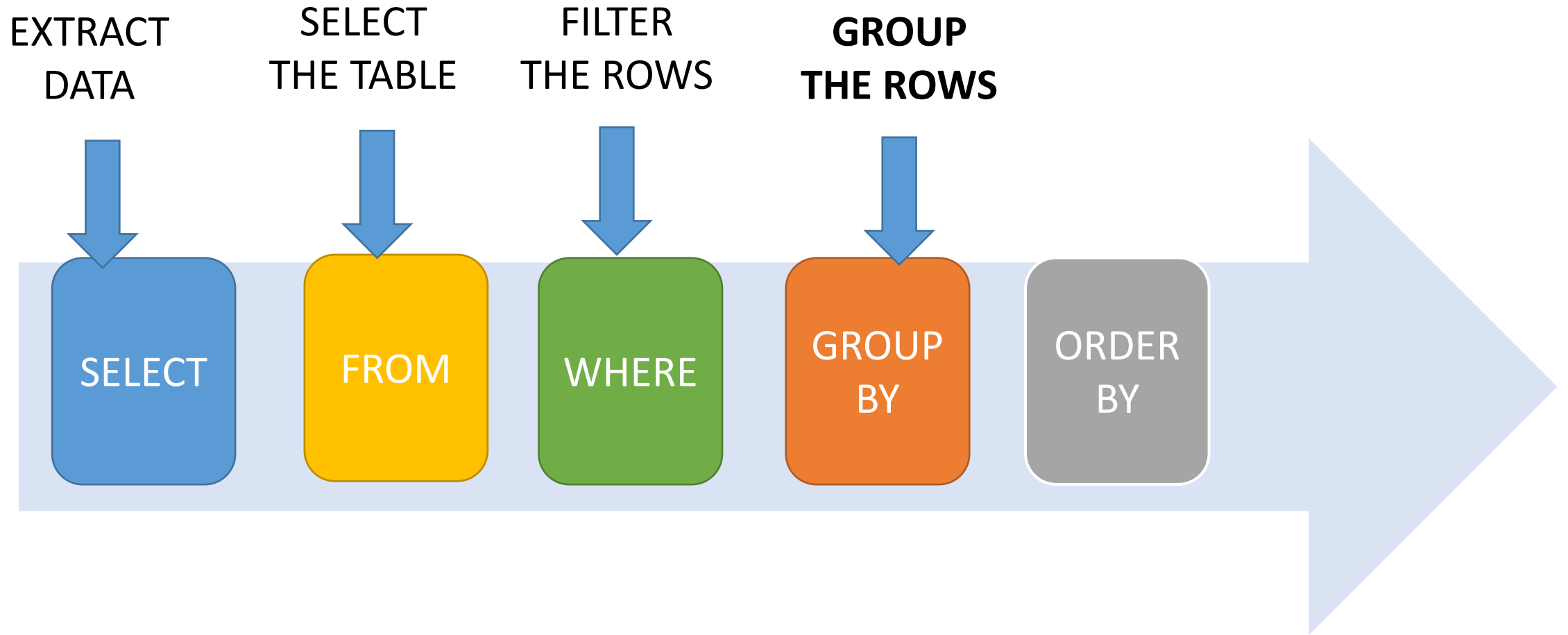into a set of summary rows
by **values of columns**

Group By
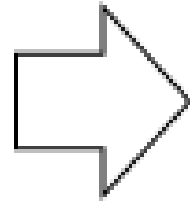
Is often **used** with an **aggregate function**
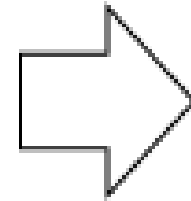
SUM AVG MIN

Group By / Order By

EXTRACT
DATA

SELECT
THE TABLE

FILTER
THE ROWS

**GROUP
THE ROWS**

| SELECT | FROM | WHERE | GROUP BY | ORDER BY |

Group By

Name	Value
A	10
A	20
B	40
C	20
C	50

Σ

```
SELECT
    Name,
    SUM(Value)
FROM
    sample_table
GROUP BY
    Name;
```

Name	SUM(Value)
A	30
B	40
C	70

Select the suppliers table

Display the **number of suppliers** per countries

Number of Records: 16

Number of suppliers	Country
2	Australia
1	Brazil
2	Canada
1	Denmark
1	Finland