

SELECT

 Select partial table contents by placing restrictions on rows to be included in output.

- Add conditional restrictions to **SELECT** statement, using **WHERE** clause.
- Syntax:

```
SELECT *
FROM table_name;

SELECT Col1,Col2,...,Coln
FROM table_name
[ WHERE conditionlist ];
```

CREATE , DROP AND DELETE TABLES

CREATE TABLE

- Used to create a new table
- Syntax:

DELETE TABLE

• Used to drop data in a table

• Syntax:

```
DELETE FROM table_name
[WHERE conditionlist ];
```

DROP TABLE

- Used to drop an entire table
- Syntax:

DROP TABLE table_name;

ADD, UPDATE AND ALTER TABLE ROWS

ADDING TABLE ROWS

- To enter data into table
- Syntax:

INSERT INTO table_name
[(column1, column2, ...)]
VALUES (value1, value2,...);

UPDATE

- Modify data in a table
- Syntax:

UPDATE tablename
SET columnname =
expression
WHERE conditionlist];

 If more than one attribute is to be updated in row, separate corrections with commas

ALTER

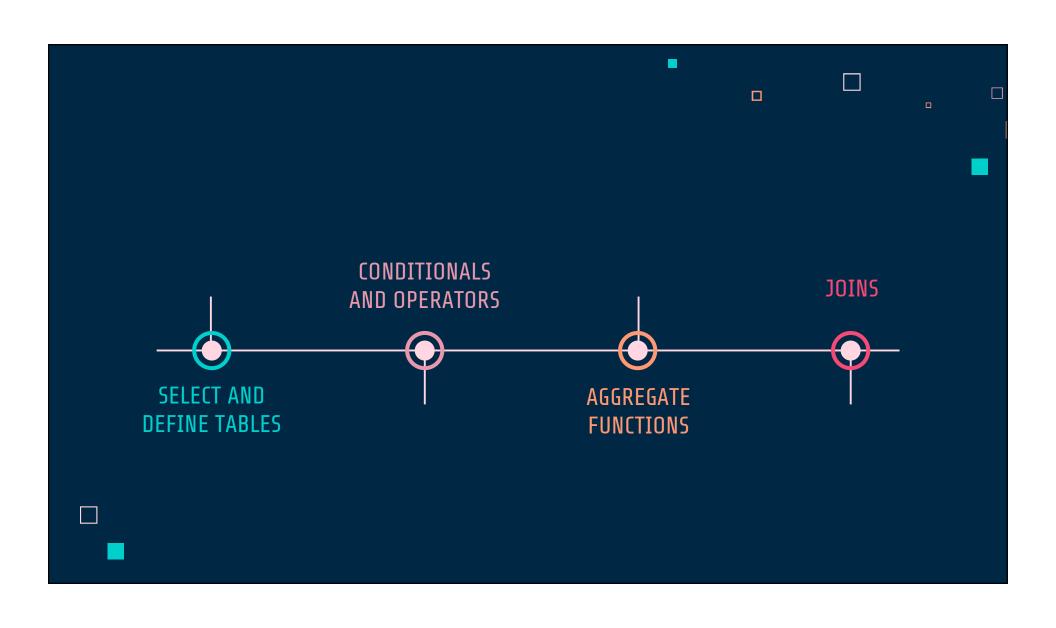
- Alter conditions from a table
- Syntax:

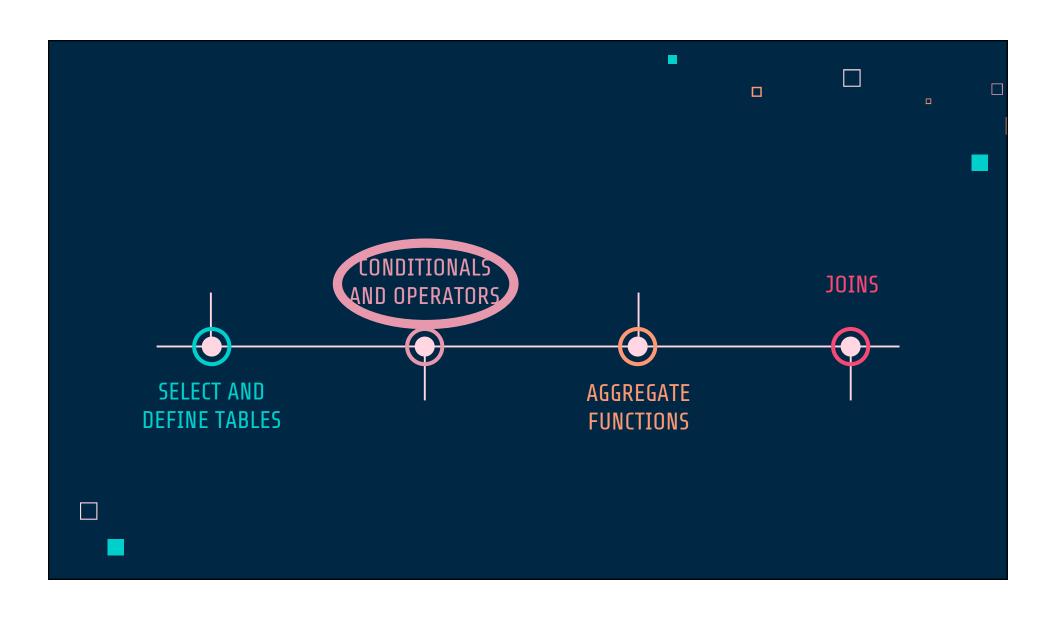
1)ALTER TABLE table_name ADD COLUMN new_c TYPE;

2)ALTER TABLE table_name RENAME COLUMN col_1 TO new_name;

*WHERE condition is optional

If WHERE condition is not specified, all rows from specified table will be updated





CONDITIONALS: COMPARISON OPERATORS

- Used in conditional expressions
- Syntax:

SELECT columnlist FROM tablelist WHERE

<expression>[comparison
operator]<expression>;

Operator

>

<

Description

Equal to

Greater than

Less than

>= | Greater than or equal to

<= | Less than or equal to

<> | Not equal to

CONDITIONALS: LOGICAL OPERATORS

- Combine conditional expressions to return true or false values:
- Syntax:

```
SELECT columnlist
FROM tablelist
WHERE condition1 AND (condition2 OR condition3) ...;
```

SELECT columnlist
FROM tablelist
WHERE NOT condition1 ...;

CONDITIONALS: SPECIAL OPERATORS

BETWEEN → BETWEEN DATE '2020-08-01' AND DATE '2020-08-31'

• Used to check whether attribute value is within a range

IS NULL or IS NOT NULL → SURENAME IS NULL

Used to check whether attribute value is null

LIKE → TRACKING_CODE LIKE '%DELIVERED%'

• Used to check whether attribute value matches given string pattern

IN or NOT IN → ID IN (SELECT * FROM table_one)

Used to check whether attribute value matches any value within a value list

CONDITIONALS: SPECIAL OPERATORS

DISTINCT \rightarrow SELECT DISTINCT NAMES FROM CLIENTES;

Limits values to unique values

AS

- Use to rename columns
- Syntax:

SELECT column1 AS Name, column2 AS Surname FROM table1;

ORDER BY → SELECT NAME, QUANTITY FROM CLIENTES ORDER BY 2 DESC;

• Use to sort data in descending or ascending order.

```
¡TIPS!
```

Mantener estructura al escribir

```
; → al final de cada query

Distinct → muestra únicos, usar siempre

Limit / Top → limita los resultados = más rápido

'%Alvarez' → el % == cualquier caracter
```

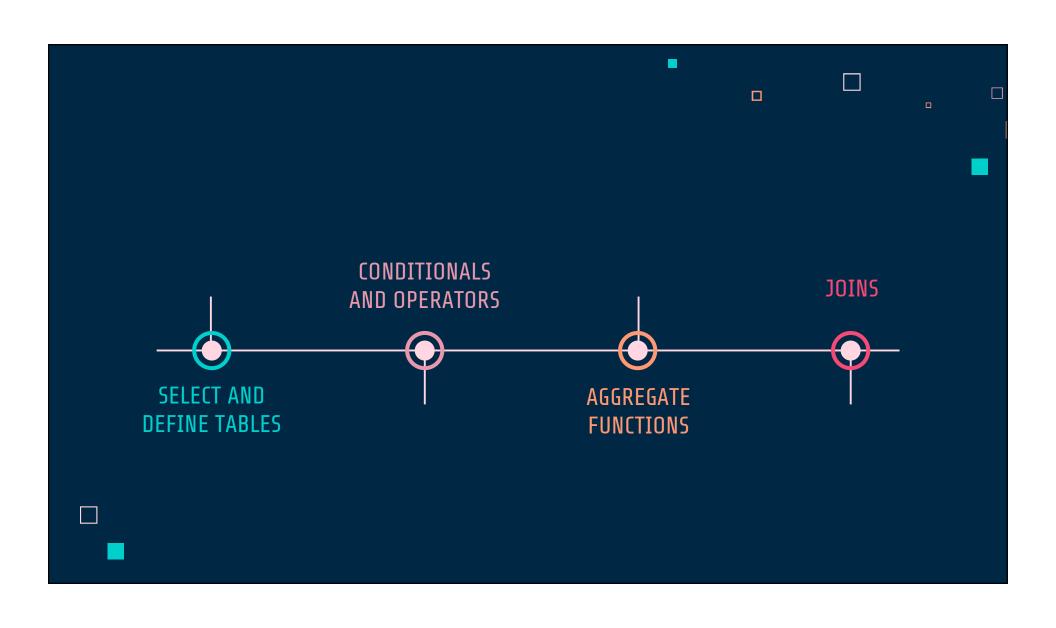
OPERATORS

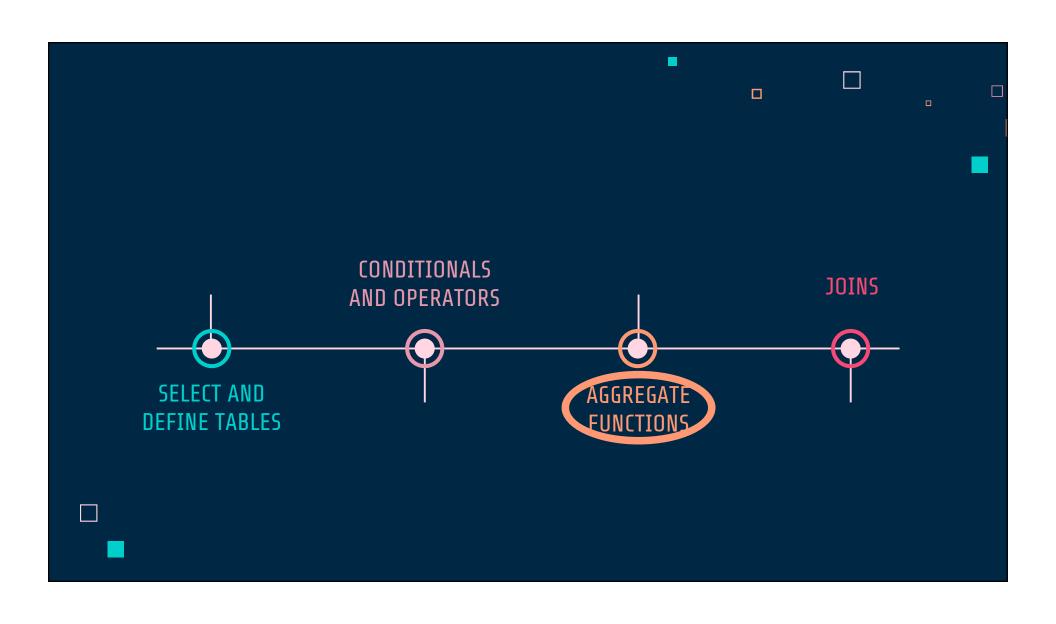
Common Arithmetic Operators :

- Add +
- Subtract -
- Multiply *
- Divide /
- Raise to the power of ^ or **

¡EJERCICIO RÁPIDO: OPERATORS!

Seleccionar de info.d00_ventas las ventas que tengan descuento mayor a 0 y
calcular para cada sku de cada boleta_id en un nuevo campo
"porcentaje_descuento" la proporción que significa ese descuento respecto del
precio.





AGGREGATE FUNCTIONS

Common Aggregate functions :

- Avg (expression)
- Count (expression) or Count (*)
- Sum (expression)
- Min/Max (expression)

Statistics Aggregate functions:

- Corr (Y, X)
- Sttdev (expression)
- Variance (expression)

AGGREGATE FUNCTIONS

- Aggregate functions compute a single result from a set of input values.
- Syntax:

SELECT column_name(s), AGGREGATE_FUNCTION() AS column_name

FROM table_name

WHERE condition

GROUP BY column_name(s)

HAVING condition

ORDER BY column_name(s);

- * AGGREGATE FUNCTIONS need a GROUP BY clause always !!!!!!!!!
- * HAVING clause is use to conditionate aggregate functions.