Insert New Record

```
INSERT INTO table_name (col1, col2, col3) VALUES(, , , )
```

```
INSERT INTO customers (
    first_name,
                 optional
    last name,
    birth_date,
    address,
    city,
    state
 )
VALUES (
    'Mohamed',
     'Saeed',
    '2002-03-25',
    'address',
    'Qalama',
    'QA'
 );
```

• Note You don't have to make it as baby step you can make multiple insert

INSERT INTO shippers (name) VALUES ('mohamed'), ('ahmed'), ('sayed')

• You can insert Hierarchical rows using simple trick in sql

Assume that you have table like orders that carry info about the order and the order items stored in another table



If you want to insert in just single shoot, you must know the **ID** of the new inserted order as it can be config As auto increment how to do things like that?

```
LAST_INSERT_ID()
```

This built-in method help to get that last id inserted so you can use it

```
INSERT INTO orders (customer_id , order_date , status)
VALUES( 1 , "2024-02-02",2);
INSERT INTO order_items VALUES( LAST_INSERT_ID() , 1 , 2,2.2 );
```

You can copy table to another table or copy the content of the table to another table

• Copy Table to another table CREATE STATMENT

CREATE TABLE archieved_orders AS
SELECT * FROM orders;

Note how the SELECT are so powerful, but note the table constrains are dropped no PK or auto increment and so on

• Copy the content of table to another table INSERT STATMENT

INSERT INTO archieved_orders
SELECT *
FROM orders;

CREATE TABLE invoice_archieve AS SELECT * FROM invoices i JOIN clients c USING (client_id) WHERE payment_date IS NOT NULL

Update STATMENT

You can update any column value using **UPDATE** Statement

UPDATE customers
SET first_name = 'Mohamed'
WHERE customer_id = 1;

Notes

- o You Can Update muliple records
- o You can Update based on filter
- · Update using the sub Queries

UPDATE invoices
SET payment_total = 15.5
WHERE client_id =

(SELECT client_id FROM clients WHERE name = 'Vinte') 16-Quertanos vertes yst 1+3+15+anos vertes yst Quert Rut to yst Some info DELETE FROM table_name

OR

DELETE FROM table_name

WHERE condition;

DELETE FROM orders

WHERE order_id =

DELETE FROM orders

WHERE order_id = 11