```
SQL
https://www.w3schools.com/sql/
https://sqliteonline.com/ (A playground environment)
Database => you are always Create, Read, Update, Destroy the data. Also know as CRUD
Basic Example make product table:
CREATE TABLE products(
  id INT NOT NULL,
  name STRING.
  price MONEY,
  PRIMARY KEY(id)
)
 INSERT INTO products
 VALUES(1, "pen", 1.2);
  INSERT INTO products (id,name)
  VALUES(2, "pencil");
SQL select (read data ): https://www.w3schools.com/sql/sql_select.asp
     SELECT name, price FROM products
SQL where (the search condition): https://www.w3schools.com/sql/sql_where.asp
     SELECT * FROM products WHERE id=1
SQL Update: <a href="https://www.w3schools.com/sql/sql_update.asp">https://www.w3schools.com/sql/sql_update.asp</a>
      UPDATE products
      SET price=0.8
      WHERE id=2
SQL alter table (ex: add new column): https://www.w3schools.com/sql/sql_alter.asp
     ALTER TABLE products
     ADD stocks INT
```

SQL delete: https://www.w3schools.com/sql/sql_delete.asp
DELETE FROM products WHERE name="pencil"

(if not specify where, the entire table will be deleted)

SQL relationship: https://www.w3schools.com/sql/sql_foreignkey.asp

```
CREATE TABLE orders(
    id INt NOT NULL,
    order_number INT,
    customers_ID INT,
    products_ID INT,
    PRIMARY KEY(id)
    FOREIGN KEY(customers_ID) REFERENCES customers(id)
    FOREIGN KEY (products_ID) REFERENCES products(id)
)
```

INSERT INTO orders(id,order_number,customers_id,products_id)

VALUES(2,3254,1,1)

INSERT INTO orders(id,order_number,customers_id,products_id) **VALUES**(1,4362,2,1)

SQL join: https://www.w3schools.com/sql/sql_join_inner.asp

SELECT orders.order_number, customers.first_name, customers.last_name, customers.address FROM orders

INNER JOIN customers ON orders.customers_id = customers.id

 ${\tt SELECT\ orders.order_number,\ products.name,\ products.price\ ,\ products.stocks\ FROM\ orders}$

INNER JOIN products ON orders.products_ID = products.id