

--UNIQUE KEY CONSTRAINT

=====

```
CREATE TABLE customers (  
    customer_id int,  
    customer_fname varchar(45) ,  
    customer_lname varchar(45),  
    customer_email varchar(45) UNIQUE KEY,  
    customer_phone varchar(45) UNIQUE KEY,  
    customer_street varchar(255) ,  
    customer_city varchar(45) ,  
    customer_state varchar(45) ,  
    customer_zipcode varchar(10)  
);  
  
INSERT INTO customers VALUES  
(1,'Richard','Hernandez','richard@gmail.com','9191919191','6303 Heather  
Plaza','Brownsville','TX','78521');  
INSERT INTO customers VALUES  
(2,'Mary','Barrett','mary@gmail.com','9191919191','9526 Noble Embers  
Ridge','Littleton','CO','80126');
```

EMPLOYEES

- employee id- PRIMARY KEY
- first name- NOT NULL
- last name- NOT NULL
- email- UNIQUE
- hire_date

USERS

- user id- PRIMARY KEY
- user name- UNIQUE
- email- UNIQUE
- password- CHECK

primary key vs unique key

primary key = unique key + not null

CHECK

NOTNULL

PRIMARY KEY

UNIQUE KEY

customer_id- primary key
email_id- unique + not null

--DEFAULT CONSTRAINT

=====

```
CREATE TABLE employees (  
    employee_id INT PRIMARY KEY,  
    first_name VARCHAR(50),  
    last_name VARCHAR(50),  
    hire_date DATE,  
    status VARCHAR(10) DEFAULT 'active'  
);
```

```
INSERT INTO employees VALUES (1, 'Kapil', 'Raj', '2023-07-01');
```

```
INSERT INTO employees (employee_id, first_name, last_name, hire_date)  
VALUES (1, 'Kapil', 'Raj', '2023-07-01');
```

or

```
INSERT INTO employees  
VALUES (2, 'rahul', 'sharma', '2023-07-02', default);
```

```
INSERT INTO employees (employee_id, first_name, last_name, hire_date, status)  
VALUES (3, 'Jane', 'Smith', '2023-07-01', 'inactive');
```

```
CREATE TABLE orders (  
    order_id INT PRIMARY KEY,  
    customer_id INT,  
    product_id INT,  
    quantity INT,  
    order_date DATE DEFAULT (CURRENT_DATE)  
);
```

```
INSERT INTO orders (order_id, customer_id, product_id, quantity)  
VALUES (1, 101, 202, 3);
```

or

```
INSERT INTO orders VALUES (1, 101, 202, 3, default);
```

```
CREATE TABLE customers (  
    customer_id INT PRIMARY KEY,  
    first_name VARCHAR(50),  
    last_name VARCHAR(50),  
    country VARCHAR(50) DEFAULT 'USA' );
```

```
INSERT INTO customers (customer_id, first_name, last_name)
VALUES (1, 'Alice', 'Smith');
```

```
-- ENSURES DATA CONSISTENCY
```

```
-- RELIABLE
```

```
=====
```

```
--AUTO INCREMENT
```

```
=====
```

```
-- USED FOR PRIMARY KEYS
```

```
CREATE TABLE employees (
    employee_id INT AUTO_INCREMENT PRIMARY KEY,
    first_name VARCHAR(50),
    last_name VARCHAR(50),
    hire_date DATE
);
```

```
INSERT INTO employees (first_name, last_name, hire_date)
VALUES ('John', 'Doe', '2023-07-01');
```

```
-- Set the starting value of the auto-increment to 1000
```

```
ALTER TABLE employees AUTO_INCREMENT = 1000;
```

```
-- Set the auto-increment increment value to 2
```

```
SET @@auto_increment_increment = 2;
```

```
-- default-- auto increment
```