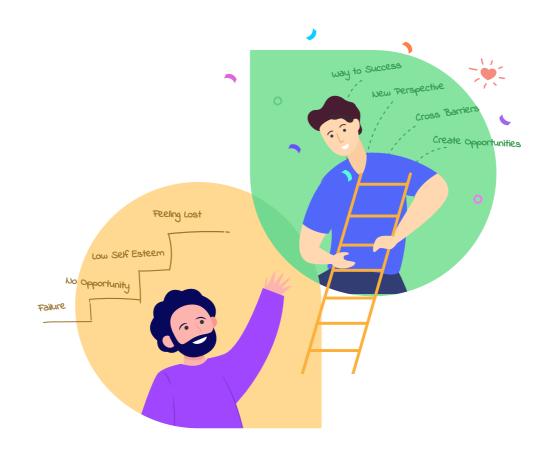


Connecting you to the next level in life.



CLASS 3

# **SQL Exercise & Worksheet**

# Queries used in the Demo

## **Table level Queries:**

### Query 1 - Create a table:

CREATE TABLE `mydatabase`.`usertable` (`id` INT NOT NULL AUTO\_INCREMENT, `name` VARCHAR(100) NOT NULL, `username` VARCHAR(100) NOT NULL, `password` VARCHAR(100) NOT NULL, `city` VARCHAR(100) NOT NULL, `age` VARCHAR(100) NOT NULL, `gender` VARCHAR(100) NOT NULL, PRIMARY KEY (`id`)) ENGINE = InnoDB;

### Query 2 - Alter a table:

ALTER TABLE 'usertable' ADD 'age' INT NOT NULL AFTER 'city';

#### Query 3 - Delete a table:

**DROP TABLE usertable** 

Note: The drop query will delete the table. You need to do the create and alter query again to proceed further.

# **CRUD Queries for Records:**

### Query 1 - Create a new user record :

INSERT INTO `usertable` (`id`, `name`, `username`, `password`, `city`, `age`, `gender`) VALUES (NULL, 'User 1', 'user1@gmail.com', '123456', 'Chennai', '25', 'Male')

### Query 2 - Select a user record with a particular user name and password:

SELECT \* FROM `usertable` WHERE `username`='user1@gmail.com' AND `password`='123456'

### Query 3 - Update a user record:

UPDATE `usertable` SET `gender`='Male' WHERE `username`='user2@gmail.com'

### Query 4 - Delete a user record:

DELETE FROM `usertable` WHERE `username`='user2@gmail.com'



# **SQL Exercise**

SI.No	Question	Answer
1	Enter the query to list the all data in the customer details table?	SELECT * FROM customer details
	* FROM customer details	
2	Enter the query to delete the customer details table?	DROP TABLE customer details
3	Enter the query to Select the records where the CustomerID column has the value 12.?	SELECT * FROM customer details WHERE CustomerID=12
4	Enter the query to Insert a new record in the customer details table? customer details (name, email, mobile, city) ( 'Bairistow', 'bairstow@user,com', '9876543219', 'Chennai')	INSERT INTO customer details (name, email, mobile, city) VALUES ('Bairistow', 'bairstow@user,com', '9876543219', 'Chennai')
5	Enter the query to Set the value of the City columns to 'Oslo', but only the ones where the name column has the value "Bairistow".? customer details city='Oslo' name="Bairistow"	UPDATE customer details SET city='Oslo' WHERE name="Bairistow"
6	Enter the query to delete all data in the customer details table? customer details	DELETE FROM customer details
7	Enter the query to add Address column in customer details table ? customer details ADD VARCHAR(100) NOT NULL AFTER city	ALTER TABLE customer details ADD Address VARCHAR(100) NOT NULL AFTER city



# **SQL Exercise**

SI.No	Question	Answer
8	Enter the query to delete 'city' column from customer details table ? customer details city	ALTER TABLE customer details DROP COLUMN city
9	Enter the query to delete the data where city column has the value 'chennai' in the customer details table? customer details city= 'chennai'	DELETE FROM customer details WHERE city= 'chennai'

# To Explore and Study further:

### Joins:

1. How to use a JOIN clause in a query to join two or more tables based on a common column in them.

Reference Material: <a href="https://www.w3schools.com/sql/sql\_join.asp">https://www.w3schools.com/sql/sql\_join.asp</a>



# **Mini-Project Exercises**

## **Tables:**

### Create one table in the following requirement:

- 1. Create a table for storing only customer information of a grocery store.
- 2. Create a table for storing only book information in a library
- 3. Create a table for storing only food information in a food ordering app

## Database:

### Create a set of tables for each database in the following requirement:

- 1. Create a database with a set of tables for online grocery store management
- 2. Create a database with a set of tables for a food ordering app
- 3. Create a database with a set of tables for a library management system

#### To learn more:

SQL Tutorial Links : https://www.w3schools.com/sql/default.asp

SQL Exercise Links: https://www.w3schools.com/sql/exercise.asp?

filename=exercise\_select1





