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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

Sl.No	Question	Answer
1	Enter the query to list the all data in the customer details table ?  _____ * FROM customer details	SELECT * 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

Sl.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 : [https://www.w3schools.com/sql/sql\\_join.asp](https://www.w3schools.com/sql/sql_join.asp)

# 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](https://www.w3schools.com/sql/exercise.asp?filename=exercise_select1)

WITH  FROM

