Task 7 – Views

Create a database named Product and create a table called Customer with the following fields in the Product database:

* Customer\_Id - Make PRIMARY KEY
* First\_name
* Last\_name
* Email
* Phone\_no
* Address
* City
* State
* Zip\_code
* Country

1. Create a view named customer\_info for the Customer table that displays Customer’s Full name and email address. Then perform the SELECT operation for the customer\_info view.  
2. Create a view named US\_Customers that displays customers located in the US.  
3. Create another view named Customer\_details with columns full name(Combine first\_name and last\_name), email, phone\_no, and state.  
4. Update phone numbers of customers who live in California for Customer\_details view.  
5. Count the number of customers in each state and show only states with more than 5 customers.  
6. Write a query that will return the number of customers in each state, based on the "state" column in the "customer\_details" view.  
7. Write a query that returns all the columns from the "customer\_details" view, sorted by the "state" column in ascending order.

CREATE DATABASE Product;

USE Product;

CREATE TABLE Customer (

Customer\_Id INT PRIMARY KEY,

First\_name VARCHAR(25),

Last\_name VARCHAR(25),

Email VARCHAR(50),

Phone\_no VARCHAR(15),

Address VARCHAR(100),

City VARCHAR(50),

State VARCHAR(25),

Zip\_code VARCHAR(10),

Country VARCHAR(25));

select \*FROM Customer;

INSERT INTO Customer (Customer\_Id, First\_name, Last\_name, Email, Phone\_no, Address, City, State, Zip\_code, Country) VALUES

(1, 'John', 'Doni', 'john.d@gmail.com', '2846546', '123 pkkd', 'palakkad', 'kerala', '678631', 'INDIA'),

(2, 'Jane', 'Smith', 'jane.smith@gmail.com', '5585678', '456 Oak St', 'San Francisco', 'California', '94101', 'US'),

(3, 'abu', 'salim', 'abu.salim@gmail.com', '789456', '789 pak', 'Islamabad', 'Islamabad', '10001', 'Pakistan'),

(4, 'Sue', 'Johnson', 'sue.johnson@gmail.com', '85264321', '321 beiji', 'Beijing', 'Beijing', '77001', 'China'),

(5, 'Tom', 'Hanks', 'tom.hanks@gmail.com', '25966789', '654 Cedar St', 'Chicago', 'Illinois', '60601', 'US'),

(6, 'Emma', 'Watson', 'emma.watson@gmail.com', '44986562', '987 Bandg', 'Bandung', 'West Java', '98101', 'Indonesia'),

(7, 'Robert', 'Downey', 'robert.downey@gmail.com', '5553344', '159 Walnut', 'Boston', 'Massachusetts', '02101', 'US'),

(8, 'KRISHNA', 'RAM', 'KRISHNA.RAM@gmail.com', '2965469', '753 COIM', 'COIMBATHOOR', 'TAMILNADU', '33101', 'INDIA'),

(9, 'ANUBAMA', 'GOPI', 'ANUBAMA.GOPI@gmail.com', '2789456', '852 EKM COK', 'ERANAKULAM', 'KERALA', '80201', 'INDIA'),

(10, 'Mark', 'Ruffalo', 'mark.ruffalo@gmail.com', '6879900', '951 hongkong', 'Hong Kong', 'Hong Kong', '65897', 'China');

select \*FROM Customer;

CREATE VIEW customer\_info AS

SELECT CONCAT(First\_name, ' ', Last\_name) AS Full\_name, Email

FROM Customer;

SELECT \* FROM customer\_info;

CREATE VIEW US\_Customers AS

SELECT \*

FROM Customer

WHERE Country = 'US';

SELECT \* FROM US\_Customers;

CREATE VIEW Customer\_details AS

SELECT CONCAT(First\_name, ' ', Last\_name) AS Full\_name, Email, Phone\_no, State

FROM Customer;

SELECT \* FROM Customer\_details;

UPDATE Customer

SET Phone\_no = '7025470718'

WHERE State = 'kerala';

SELECT \* FROM Customer\_details WHERE State = 'kerala';

select \*FROM Customer;

SELECT Country, COUNT(\*) AS Number\_Of\_Customers

FROM Customer

GROUP BY Country

HAVING COUNT(\*) <= 5;

SELECT State, COUNT(\*) AS Number\_Of\_Customers

FROM Customer\_details

GROUP BY State;

SELECT \*

FROM Customer\_details

ORDER BY State ASC;

















