

TASK - 6

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 DATABASE product ;
2 • USE product ;
3
4 • CREATE TABLE customer (
5     Customer_Id INT PRIMARY KEY,
6     First_name VARCHAR(50),
7     Last_name VARCHAR(50),
8     Email VARCHAR(70),
9     Phone_no BIGINT,
10    Address VARCHAR(100),
11    City VARCHAR(50),
12    State VARCHAR(50),
13    Zip_code BIGINT,
14    Country VARCHAR(70));
```

```

16 • INSERT INTO customer VALUES
17 (1001, "JOHN", "IMANUEL", "johnimanul@gmail.com", 1234567890, "123 OTTLO STREET", "SPRINGFIELD", "ILLINOIS", 62704, "USA"),
18 (1002, "RAJESH", "KUMAR", "rajeshkumar64@hotmail.com", 9812345678, "1234 FREAZA STREET", "DELHI", "DELHI", 110001, "INDIA"),
19 (1003, "SIZUSHI", "TAKASU", "sizushitakasuki65@gmail.com", 8123456789, "SAKURA STREET", "TOKYO", "TOKYO", 990001, "JAPAN"),
20 (1004, "SOPHIE", "ANDREW", "sophieandrew12@gmail.com", 331-23456789, "123 RUE DEPAIX", "PARIS", "PARIS", 7508801, "FRANCE"),
21 (1005, "MIGUEL", "SANTOS", "miguelsantos@.com", 5534567890, "5th BLOCK AVENIDA LOUIS", "SAO PAULO", "SAO PAULO", 779000, "BRAZIL"),
22 (1006, "HOE", "CHEN", "hoechen@hotmail.com", 8623456789, "674 BEIJING ROAD", "SHANGHAI", "SHANG", 200001, "CHINA"),
23 (1007, "ANASTASIA", "IVANOVA", "anastasia.ivanova@gmail.com", 79123456789, "9th BLOCK RED SQUARE", "MOSCOW", "MOSIQ", 109012, "RUSSIA"),
24 (1008, "DIEGO", "GORIE", "diegogoriee@email.com", 3456789012, "1st SREET ANNE JOE", "MEXICO CITY", "MEXICO CITY", 010970, "MEXICO"),
25 (1009, "ISABELLA", "ROSSI", "isabellarossi200@email.com", 3934567890, "VIA VOSIKO 1", "ROME", "LAZIO", 4500184, "ITALY"),
26 (1010, "MICHEL", "SCHMIDT", "michelschmidt8440@yahoo.com", 4945678901, "HITAUOO", "BERLIN", "UTTAO", 9810178, "GERMANY"),
27 (1011, "SARAH", "JOHNSON", "sarah.johnson@gmail.com", 1234567890, "456 Maple Street", "Los Angeles", "CALIFORNIA", 90001, "USA"),
28 (1012, "DAVID", "LEE", "david.lee@hotmail.com", 9876543210, "789 Oak Avenue", "San Francisco", "SANFRANSOCO", 94102, "USA"),
29 (1013, "EMMA", "WANG", "emma.wang@hotmail.com", 8765432109, "321 Elm Street", "New York City", "New York", 10001, "USA"),
30 (1014, "YUKI", "YAMAMOTO", "yuki.yamamoto@yahoo.com", 6543210987, "123 Cherry Street", "Tokyo", "Tokyo", 150-0001, "JAPAN"),
31 (1015, "CARLOS", "RODRIGUEZ", "carlos.rodriguez@gmail.com", 7890123456, "456 Pine Street", "Mexico City", "Mexico City", 01010, "MEXICO"),
32 (1016, "LUCIA", "GARCIA", "lucia.garcia@gmail.com", 9087654321, "789 Cedar Street", "Madrid", "Madrid", 28001, "SPAIN"),
33 (1017, "ANTONIO", "SILVA", "antonio.silva@gmail.com", 9876543210, "123 Oak Street", "Lisbon", "Lisbon", 1100-001, "USA"),
34 (1018, "ELSA", "MARTINEZ", "elsa.martinez@gmail.com", 8765432109, "456 Maple Avenue", "Buenos Aires", "Buenos Aires", 1001, "ARGENTINA"),
35 (1019, "MATTHEW", "SMITH", "matthew.smith@gmail.com", 7654321098, "789 Elm Street", "Sydney", "New South Wales", 2000, "AUSTRALIA"),
36 (1020, "EMILIA", "NOVA", "emilia.nova@gmail.com", 6543210987, "123 Cedar Avenue", "Lisbon", "Lisbon", 1200-001, "PORTUGAL");
37
38 • SELECT * FROM customer;

```

Result Grid									
Filter Rows:									
Edit: Export/Import: Wrap Cell Content: A									
Customer_Id	First_name	Last_name	Email	Phone_no	Address	City	State	Zip_code	Country
1001	JOHN	IMANUEL	johnimanul@gmail.com	1234567890	123 OTTLO STREET	SPRINGFIELD	ILLINOIS	62704	USA
1002	RAJESH	KUMAR	rajeshkumar64@hotmail.com	9812345678	1234 FREAZA STREET	DELHI	DELHI	110001	INDIA
1003	SIZUSHI	TAKASU	sizushitakasuki65@gmail.com	8123456789	SAKURA STREET	TOKYO	TOKYO	990001	JAPAN
1004	SOPHIE	ANDREW	sophieandrew12@gmail.com	-23456458	123 RUE DEPAIX	PARIS	PARIS	7508801	FRANCE
1005	MIGUEL	SANTOS	miguelsantos@.com	5534567890	5th BLOCK AVENIDA LOUIS	SAO PAULO	SAO PAULO	779000	BRAZIL
1006	HOE	CHEN	hoechen@hotmail.com	8623456789	674 BEIJING ROAD	SHANGHAI	SHANG	200001	CHINA
1007	ANASTASIA	IVANOVA	anastasia.ivanova@gmail.com	79123456789	9th BLOCK RED SQUARE	MOSCOW	MOSIQ	109012	RUSSIA
1008	DIEGO	GORIE	diegogoriee@email.com	3456789012	1st SREET ANNE JOE	MEXICO CITY	MEXICO CITY	10970	MEXICO
1009	ISABELLA	ROSSI	isabellarossi200@email.com	3934567890	VIA VOSIKO 1	ROME	LAZIO	4500184	ITALY
1010	MICHEL	SCHMIDT	michelschmidt8440@yahoo.com	4945678901	HITAUOO	BERLIN	UTTAO	9810178	GERMANY
1011	SARAH	JOHNSON	sarah.johnson@gmail.com	1234567890	456 Maple Street	Los Angeles	CALIFORNIA	90001	USA
1012	DAVID	LEE	david.lee@hotmail.com	9876543210	789 Oak Avenue	San Francisco	SANFRANSOCO	94102	USA
1013	EMMA	WANG	emma.wang@hotmail.com	8765432109	321 Elm Street	New York City	New York	10001	USA
1014	YUKI	YAMAMOTO	yuki.yamamoto@yahoo.com	6543210987	123 Cherry Street	Tokyo	Tokyo	149	JAPAN
1015	CARLOS	RODRIGUEZ	carlos.rodriguez@gmail.com	7890123456	456 Pine Street	Mexico City	Mexico City	1010	MEXICO
1016	LUCIA	GARCIA	lucia.garcia@gmail.com	9087654321	789 Cedar Street	Madrid	Madrid	28001	SPAIN
1017	ANTONIO	SILVA	antonio.silva@gmail.com	9876543210	123 Oak Street	Lisbon	Lisbon	1099	USA
1018	ELSA	MARTINEZ	elsa.martinez@gmail.com	8765432109	456 Maple Avenue	Buenos Aires	Buenos Aires	1001	ARGENTI...
1019	MATTHEW	SMITH	matthew.smith@gmail.com	7654321098	789 Elm Street	Sydney	New South ...	2000	AUSTRALIA
1020	EMILIA	NOVA	emilia.nova@gmail.com	6543210987	123 Cedar Avenue	Lisbon	Lisbon	1199	PORTUGAL

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.

```

40 • CREATE VIEW customer_info AS
41     SELECT CONCAT(First_name , " ", Last_name) AS Full_name ,Email FROM customer;
42
43 • SELECT * FROM customer_info;

```

Result Grid		
Filter Rows: <input type="text"/>		
Export:		
Wrap Cell Content:		
	Full_name	Email
▶	JOHN IMANUEL	johnimanul@gmail.com
	RAJESH KUMAR	rajeshkumar64@hotmail.com
	SIZUSHI TAKASU	sizushitakasuki65@gmail.com
	SOPHIE ANDREW	sophieandrew12@gmail.com
	MIGUEL SANTOS	miguelsantos@.com
	HOE CHEN	hoechen@hotmail.com
	ANASTASIA IVANOVA	anastasia.ivanova@gmail.com
	DIEGO GORIE	diegogoriee@email.com
	ISABELLA ROSSI	isabellarossi200@email.com
	MICHEL SCHMIDT	michelschmidt8440@yahoo.com
	SARAH JOHNSON	sarah.johnson@gmail.com
	DAVID LEE	david.lee@hotmail.com
	EMMA WANG	emma.wang@hotmail.com
	YUKI YAMAMOTO	yuki.yamamoto@yahoo.com
	CARLOS RODRIGUEZ	carlos.rodriguez@gmail.com
	LUCIA GARCIA	lucia.garcia@gmail.com
	ANTONIO SILVA	antonio.silva@gmail.com
	ELSA MARTINEZ	elsa.martinez@gmail.com
	MATTHEW SMITH	matthew.smith@gmail.com
	EMILIA NOVA	emilia.nova@gmail.com

2. Create a view named US_Customers that displays customers located in the US.

- customer
- Views
 - customer_info
 - Full_name
 - Email
 - us_customers
 - Customer_Id
 - First_name
 - Last_name
 - Email
 - Phone_no
 - Address
 - City
 - State
 - Zip_code
 - Country
- Stored Procedures
- Functions
- state
- store

```

45
46 • CREATE VIEW US_Customers AS
47     SELECT * FROM customer WHERE Country = 'USA';
48
49 • SELECT * FROM US_Customers;
50
51 • CREATE VIEW Customers_details AS

```

Result Grid										
Filter Rows: <input type="text"/>										
Export:										
Wrap Cell Content:										
	Customer_Id	First_name	Last_name	Email	Phone_no	Address	City	State	Zip_code	Country
▶	1001	JOHN	IMANUEL	johnimanul@gmail.com	1234567890	123 OTTLO STREET	SPRINGFIELD	ILLINOIS	62704	USA
	1011	SARAH	JOHNSON	sarah.johnson@gmail.com	1234567890	456 Maple Street	Los Angeles	CALIFORNIA	90001	USA
	1012	DAVID	LEE	david.lee@hotmail.com	9876543210	789 Oak Avenue	San Francisco	SANFRANSICO	94102	USA
	1013	EMMA	WANG	emma.wang@hotmail.com	8765432109	321 Elm Street	New York City	New York	10001	USA
	1017	ANTONIO	SILVA	antonio.silva@gmail.com	9876543210	123 Oak Street	Lisbon	Lisbon	1099	USA

3. Create another view named Customer_details with columns full name(Combine first_name and last_name), email, phone_no, and state

The screenshot displays the SQL Server Enterprise Manager interface. On the left, the 'Schemas' pane shows a database with several tables and views. The 'customers_details' view is highlighted. Below it, the 'Columns' pane lists the columns: Full_name (varchar(10)), Email (varchar(70)), Phone_no (bigint), and State (varchar(50)).

The main window shows the SQL query editor with the following code:

```
50
51 • CREATE VIEW Customers_details AS
52 SELECT CONCAT(First_name, " ", Last_name) AS Full_name , Email , Phone_no , State FROM customer;
53
54 • SELECT * FROM Customers details ;
```

Below the query editor, the 'Result Grid' shows the data returned by the query. The columns are Full_name, Email, Phone_no, and State. The data is as follows:

Full_name	Email	Phone_no	State
JOHN IMANUEL	johnimanul@gmail.com	1234567890	ILLINOIS
RAJESH KUMAR	rajeshkumar64@hotmail.com	9812345678	DELHI
SIZUSHI TAKASU	sizushitakasuki65@gmail.com	8123456789	TOKYO
SOPHIE ANDREW	sophieandrew12@gmail.com	-23456458	PARIS
MIGUEL SANTOS	miguelsantos@.com	5534567890	SAO PAULO
HOE CHEN	hoechen@hotmail.com	8623456789	SHANG
ANASTASIA IVANOVA	anastasia.ivanova@gmail.com	79123456789	MOSIQ
DIEGO GORIE	diegogoriee@email.com	3456789012	MEXICO CITY
ISABELLA ROSSI	isabellarossi200@email.com	3934567890	LAZIO
MICHEL SCHMIDT	michelschmidt8440@yahoo.com	4945678901	UTTAO
SARAH JOHNSON	sarah.johnson@gmail.com	1234567890	CALIFORNIA
DAVID LEE	david.lee@hotmail.com	9876543210	SANFRANSICO
EMMA WANG	emma.wang@hotmail.com	8765432109	New York
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ANTONIO SILVA	antonio.silva@gmail.com	9876543210	Lisbon
ELSA MARTINEZ	elsa.martinez@gmail.com	8765432109	Buenos Aires
MATTHEW SMITH	matthew.smith@gmail.com	7654321098	New South ...
EMILIA NOVA	emilia.nova@gmail.com	6543210987	Lisbon

4. Update phone numbers of customers who live in California for Customer_details view.


```

56 • UPDATE customer SET Phone_no = 999565433 WHERE State = 'CALIFORNIA' ;
57
58 • SELECT * FROM Customers_details ;
--

```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:				
	Full_name	Email	Phone_no	State
▶	JOHN IMANUEL	johnimanul@gmail.com	1234567890	ILLINOIS
	RAJESH KUMAR	rajeshkumar64@hotmail.com	9812345678	DELHI
	SIZUSHI TAKASU	sizushitakasuki65@gmail.com	8123456789	TOKYO
	SOPHIE ANDREW	sophieandrew12@gmail.com	-23456458	PARIS
	MIGUEL SANTOS	miguelsantos@.com	5534567890	SAO PAULO
	HOE CHEN	hoechen@hotmail.com	8623456789	SHANG
	ANASTASIA IVANOVA	anastasia.ivanova@gmail.com	79123456789	MOSIQ
	DIEGO GORIE	diegogoriee@email.com	3456789012	MEXICO CITY
	ISABELLA ROSSI	isabellarossi200@email.com	3934567890	LAZIO
	MICHEL SCHMIDT	michelschmidt8440@yahoo.com	4945678901	UTTAO
	SARAH JOHNSON	sarah.johnson@gmail.com	999565433	CALIFORNIA
	DAVID LEE	david.lee@hotmail.com	9876543210	SANFRANSKO
	EMMA WANG	emma.wang@hotmail.com	8765432109	New York
	YUKI YAMAMOTO	yuki.yamamoto@yahoo.com	6543210987	Tokyo
	CARLOS RODRIGUEZ	carlos.rodriguez@gmail.com	7890123456	Mexico City
	LUCIA GARCIA	lucia.garcia@gmail.com	9087654321	Madrid
	ANTONIO SILVA	antonio.silva@gmail.com	9876543210	Lisbon
	ELSA MARTINEZ	elsa.martinez@gmail.com	8765432109	Buenos Aires

Customers_details42 x

5. Count the number of customers in each state and show only states with more than 5 customers.

```



85 • SELECT State, COUNT(*) AS Customer_Count
86 FROM Customer_details
87 GROUP BY State
88 HAVING COUNT(*) > 5;
89

```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cel	
State	Customer_Count

6. Write a query that will return the number of customers in each state, based on the "state" column in the "customer_details" view.

```
81 • SELECT State, COUNT(*) AS Customer_Count
82     FROM Customer_details
83     GROUP BY State;
```

Result Grid  Filter Rows: <input type="text"/> Export:  Wrap Cel		
	State	Customer_Count
▶	ILLINOIS	1
	DELHI	1
	TOKYO	2
	PARIS	1
	SAO PAULO	1
	SHANG	1
	MOSIQ	1
	MEXICO CITY	2
	LAZIO	1
	UTTAO	1
	CALIFORNIA	1
	SANFRANSKO	1
	New York	1
	Madrid	1
	Lisbon	2

7. Write a query that returns all the columns from the "customer_details" view, sorted by the "state" column in ascending order.

93 • `SELECT * FROM Customer_details`

94 `ORDER BY State ASC;`

95

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

Full_name	Email	Phone_no	State
ELSA MARTINEZ	elsa.martinez@gmail.com	8765432109	Buenos Aires
SARAH JOHNSON	sarah.johnson@gmail.com	999565433	CALIFORNIA
RAJESH KUMAR	rajeshkumar64@hotmail.com	9812345678	DELHI
JOHN IMANUEL	johnimanul@gmail.com	1234567890	ILLINOIS
ISABELLA ROSSI	isabellarossi200@email.com	3934567890	LAZIO
ANTONIO SILVA	antonio.silva@gmail.com	9876543210	Lisbon
EMILIA NOVA	emilia.nova@gmail.com	6543210987	Lisbon
LUCIA GARCIA	lucia.garcia@gmail.com	9087654321	Madrid
DIEGO GORIE	diegogoriee@email.com	3456789012	MEXICO CITY
CARLOS RODRIGUEZ	carlos.rodriguez@gmail.com	7890123456	Mexico City
ANASTASIA IVANOVA	anastasia.ivanova@gmail.com	79123456789	MOSIQ
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EMMA WANG	emma.wang@hotmail.com	8765432109	New York
SOPHIE ANDREW	sophieandrew12@gmail.com	-23456458	PARIS
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MIGUEL SANTOS	miguelsantos@.com	5534567890	SAO PAULO
HOE CHEN	hoechen@hotmail.com	8623456789	SHANG
SIZUSHI TAKASU	sizushitakasuki65@gmail.com	8123456789	TOKYO
YUKI YAMAMOTO	yuki.yamamoto@yahoo.com	6543210987	Tokyo
MICHEL SCHMIDT	michelschmidt8440@yahoo....	4945678901	UTTAO