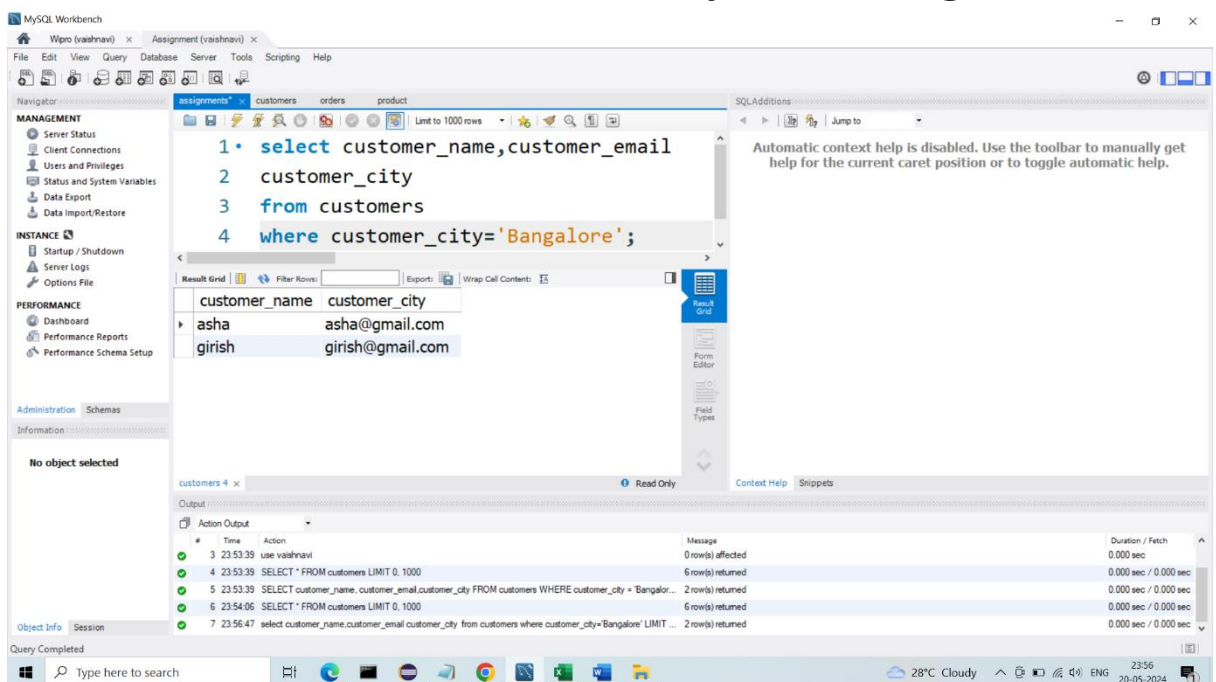


Assignment 02:

Craft a query using an INNER JOIN to combine 'orders' and 'customers' tables for customers in a specified region, and a LEFT JOIN to display all customers including those without orders.

1. INNER JOIN for customers in a specified region:



The screenshot displays the MySQL Workbench interface. The SQL editor contains the following query:

```
1. select customer_name, customer_email
2. customer_city
3. from customers
4. where customer_city = 'Bangalore';
```

The query results are shown in a table with two columns: **customer_name** and **customer_email**. The results are as follows:

customer_name	customer_email
asha	asha@gmail.com
girish	girish@gmail.com

The bottom panel shows the **Action Output** tab, which lists the execution steps and their results:

#	Time	Action	Message	Duration / Fetch
3	23:53:39	use vaishnavi	0 row(s) affected	0.000 sec
4	23:53:39	SELECT * FROM customers LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
5	23:53:39	SELECT customer_name, customer_email, customer_city FROM customers WHERE customer_city = 'Bangalore'...	2 row(s) returned	0.000 sec / 0.000 sec
6	23:54:06	SELECT * FROM customers LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
7	23:56:47	select customer_name, customer_email, customer_city from customers where customer_city = 'Bangalore' LIMIT ...	2 row(s) returned	0.000 sec / 0.000 sec

2.LEFT JOIN to display all customers (including those without orders):

The screenshot displays the MySQL Workbench interface. The central query editor contains the following SQL code:

```
10 • SELECT c.customer_name, c.customer_email,  
11       o.order_id, o.order_date  
12 FROM customers c  
13 LEFT JOIN orders o ON c.customer_id = o.customer_id;  
14  
15
```

Below the query editor, the 'Result Grid' shows the output of the query. The results are as follows:

customer_name	customer_email	order_id	order_date
asha	asha@gmail.com	1	2024-01-01
asha	asha@gmail.com	4	2024-01-04
malar	malar@gmail.com	2	2024-01-02
malar	malar@gmail.com	5	2024-01-05
manish	manish@gmail.com	3	2024-01-03
divya	divya@gmail.com	6	2024-01-06
girish	girish@gmail.com	7	2024-01-07
deepak	deepak@gmail.com		

The bottom status bar indicates 'Query Completed' at 23:56:47, with a message: 'select customer_name, customer_email, customer_city from customers where customer_city = 'Bangalore' LIMIT ... 2 row(s) returned'. The duration of the query was 0.000 sec / 0.000 sec.