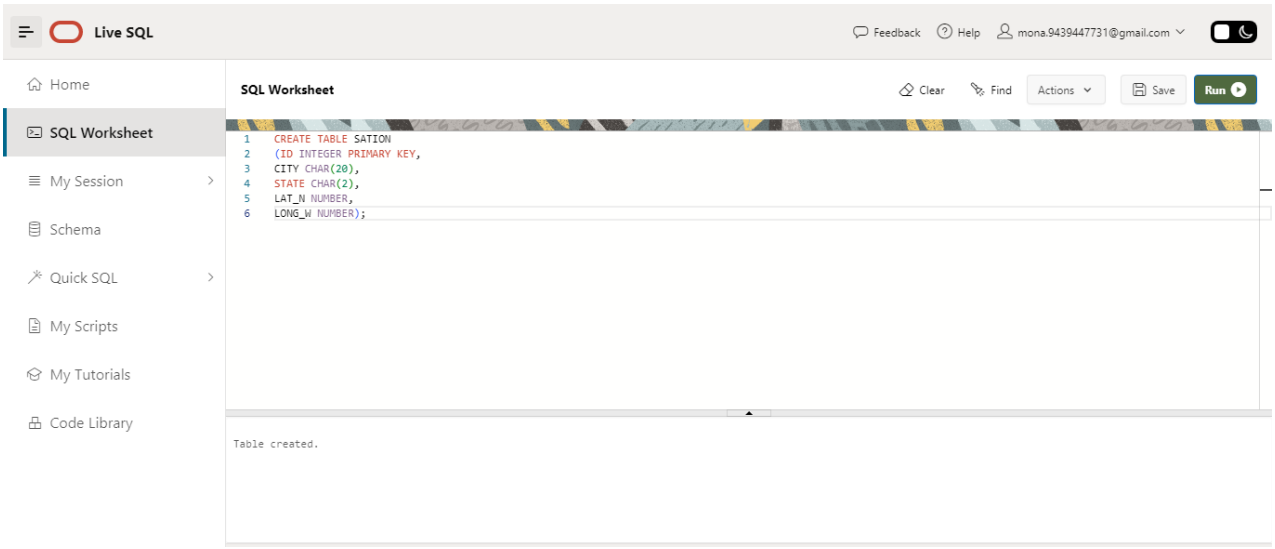
Q 1. Create a table “station” to store information about weather observation stations:

ID	Number	Primary Key
CITY	CHAR (20)	
STATE	CHAR (2)	
LAT_N	NUMBER	
LONG_W	NUMBER	

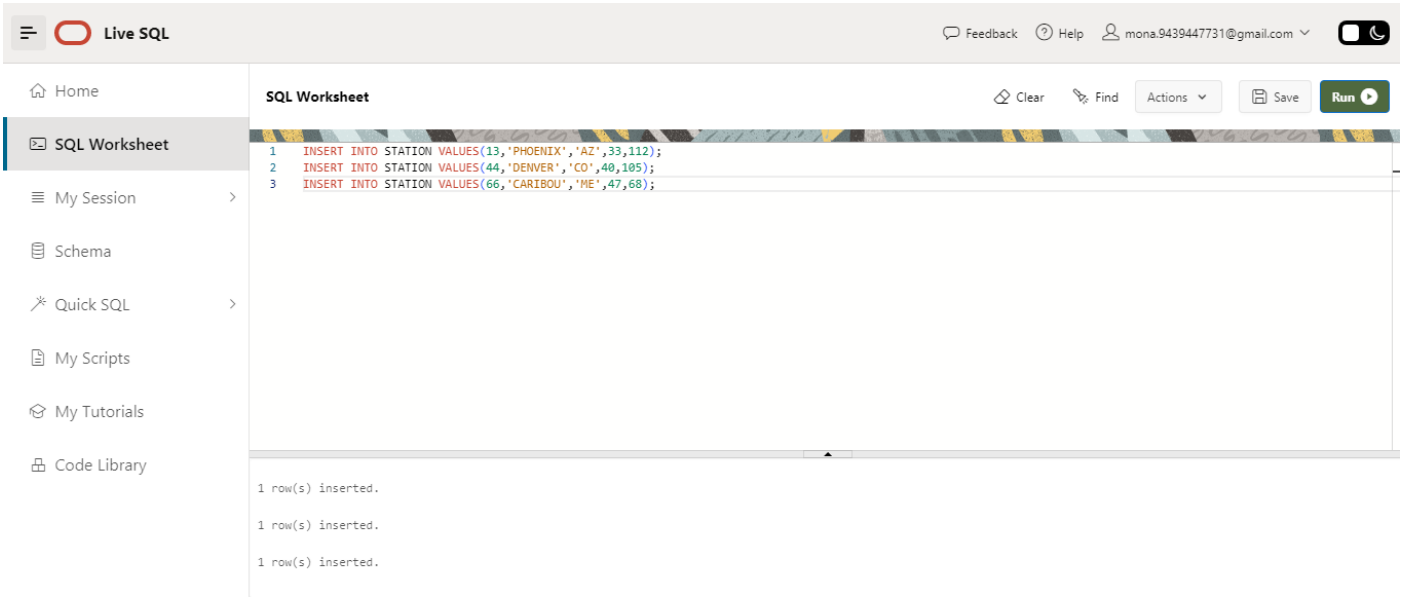
Ans:



Q2. Insert the following records into the table:

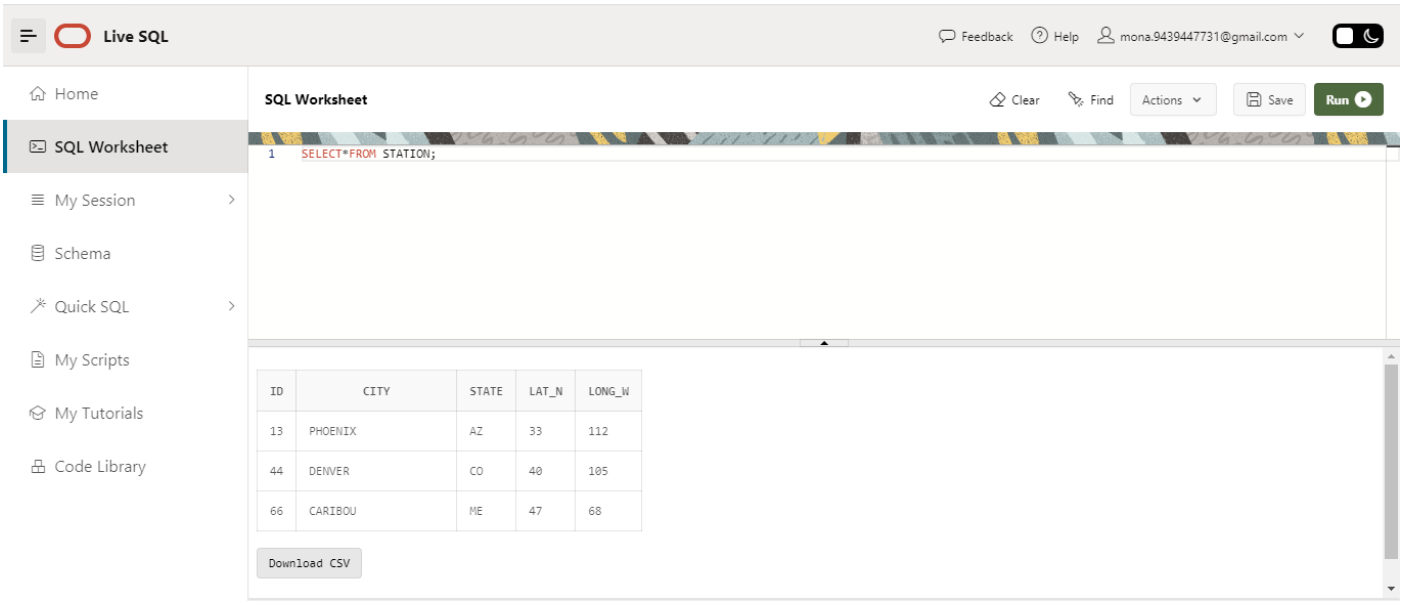
ID	CITY	STATE	LAT_N	LONG_W
13	PHOENIX	AZ	33	112
44	DENVER	CO	40	105
66	CARIBOU	ME	47	68

Ans.



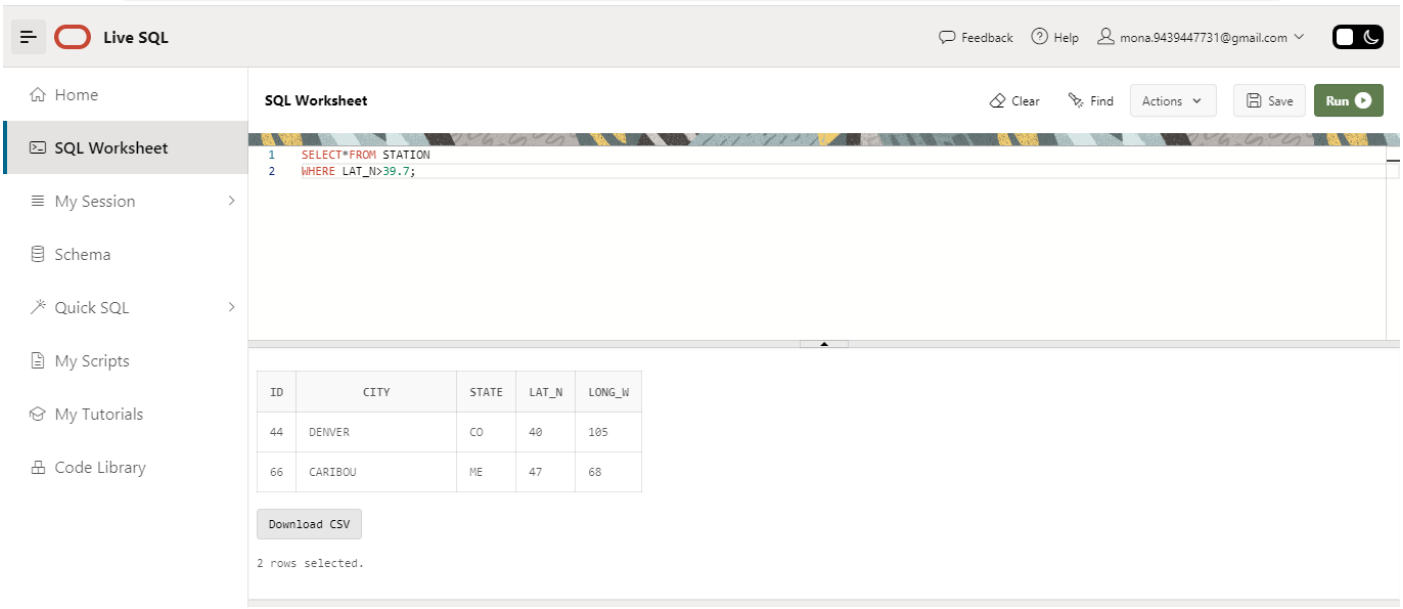
Q 3. Execute a query to look at table STATION in undefined order.

Ans.



Q 4. Execute a query to select Northern stations (Northern latitude > 39.7).

Ans.

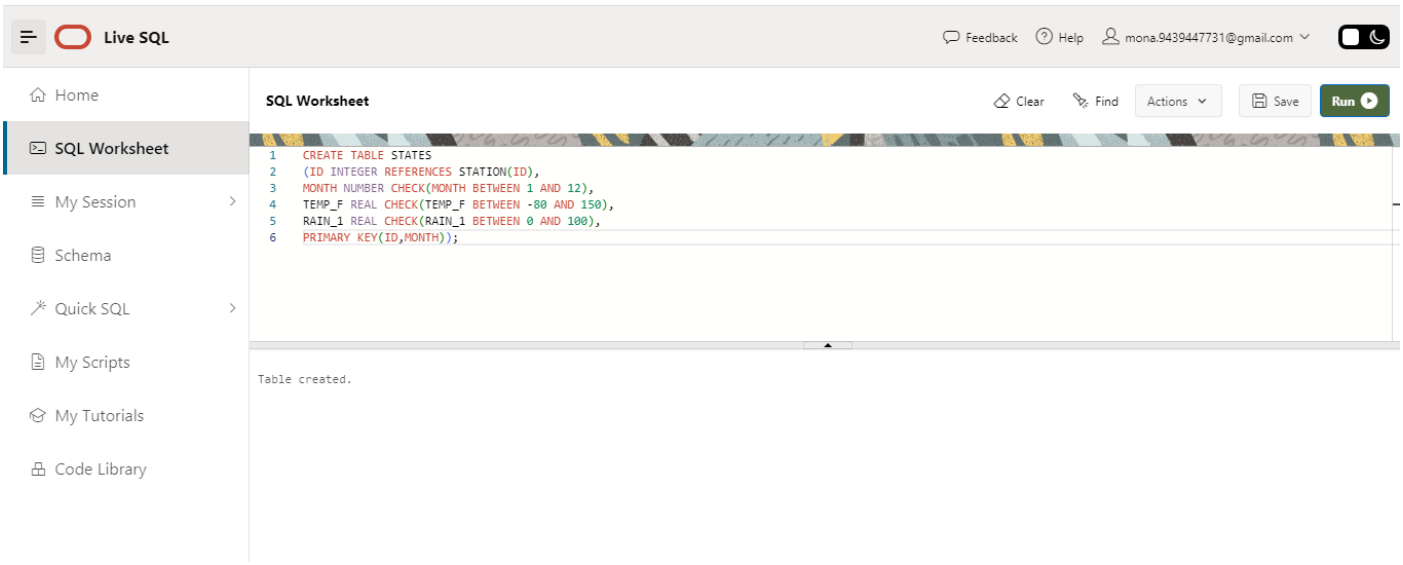


Q 5. Create another table, 'STATS' to store normalized temperature and precipitation data:

Column	Data Type	Remark
ID	Number	Must match some STATION table ID (so name & location will be known).
MONTH	Number	Range between 1 and 12
TEMP_F	Number	In Fahrenheit degrees, range between -80 and 150
RAIN_I	Number	In inches, range between 0 and 100

There will be no duplicate ID and MONTH combination.

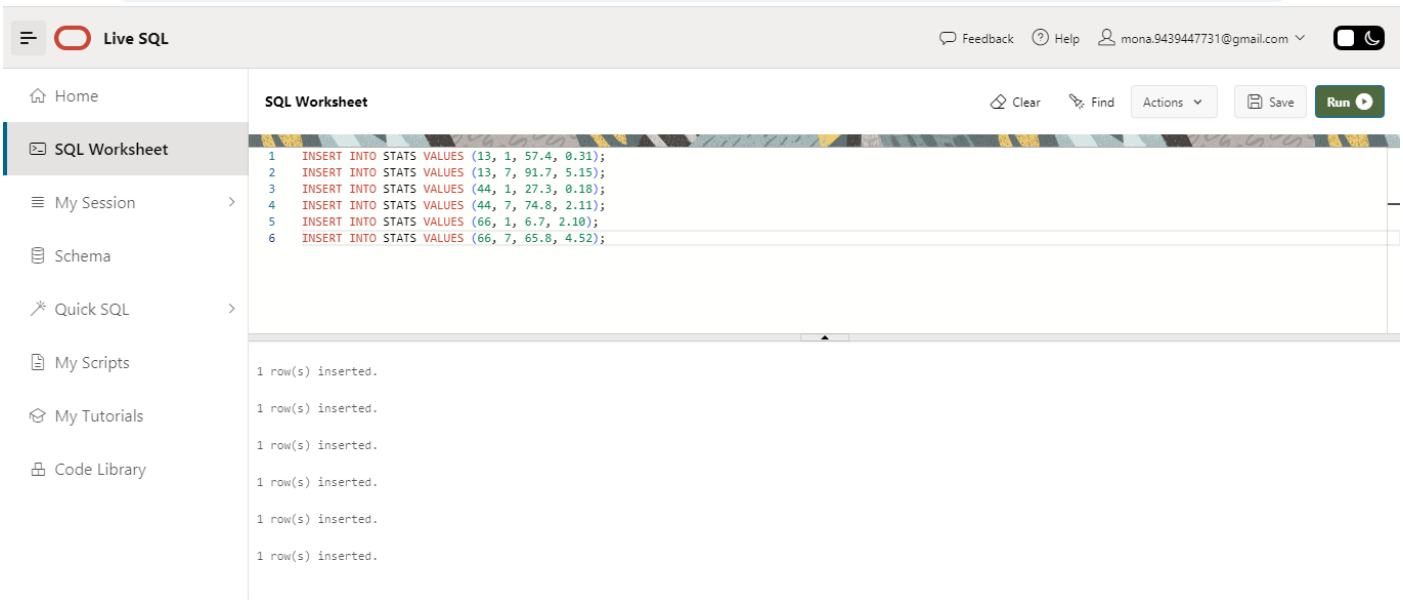
Ans.



Q 6. Populate the table STATS with some statistics for January and July:

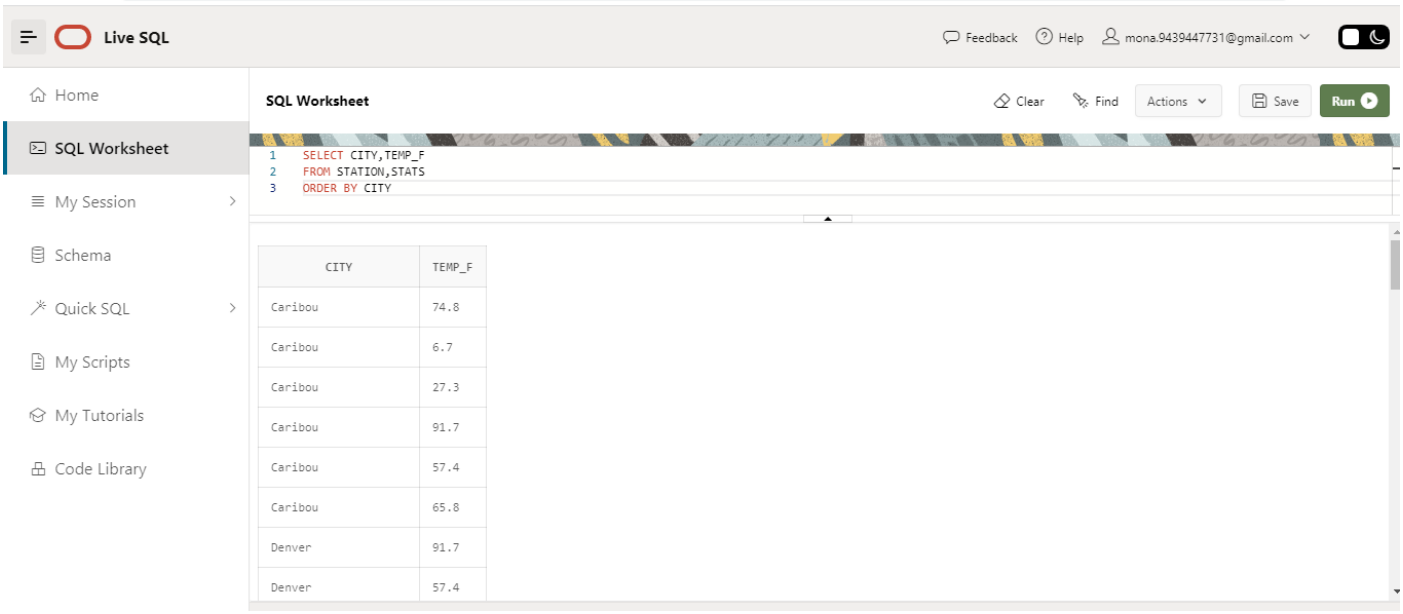
ID	MONTH	TEMP_F	RAIN_I
13	1	57.4	.31
13	7	91.7	5.15
44	1	27.3	.18
44	7	74.8	2.11
66	1	6.7	2.1
66	7	65.8	4.52

Ans.



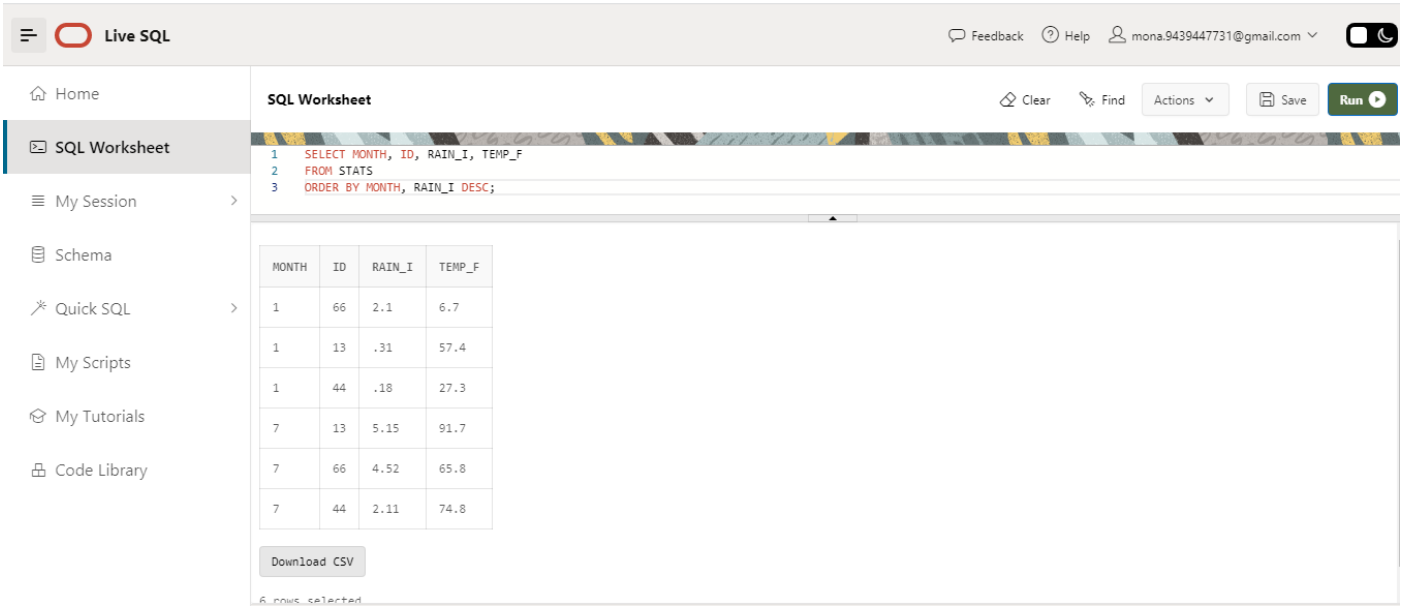
Q 7. Execute a query to display temperature stats (from STATS table) for each city (from station table).

Ans.



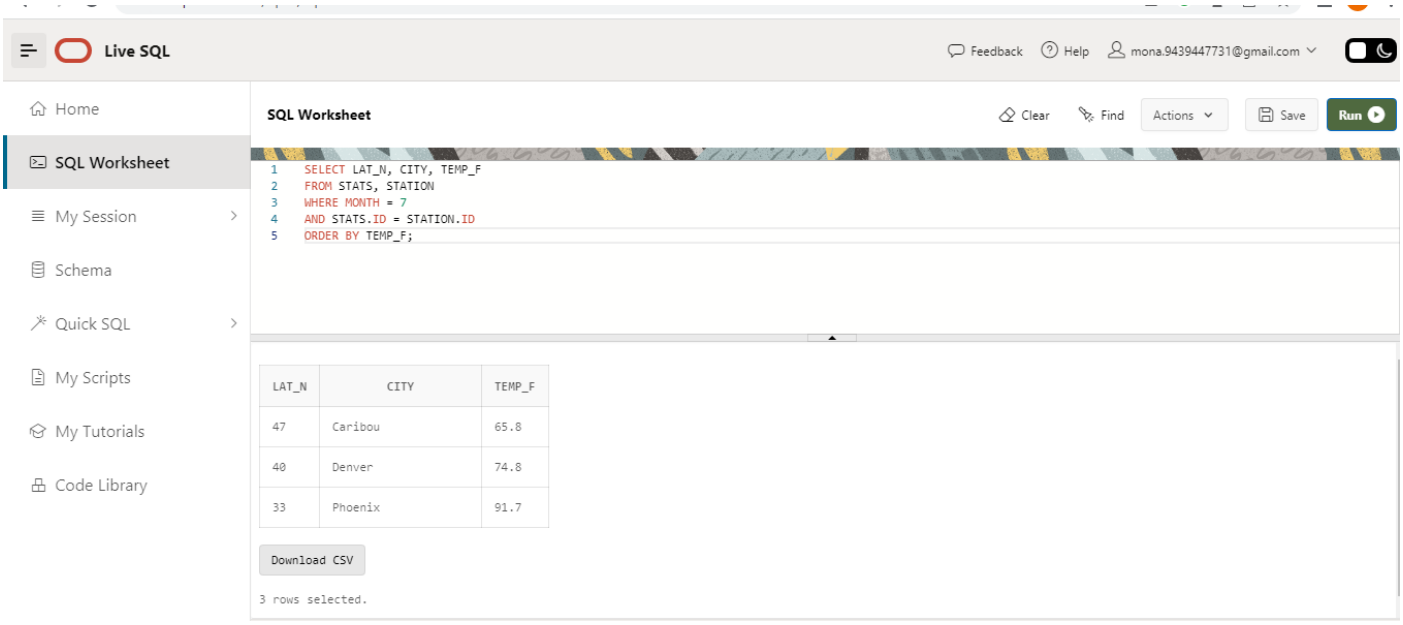
Q 8. Execute a query to look at the table stats, order by month and greatest rainfall, with columns rearranged. It should also show the corresponding cities.

Ans.



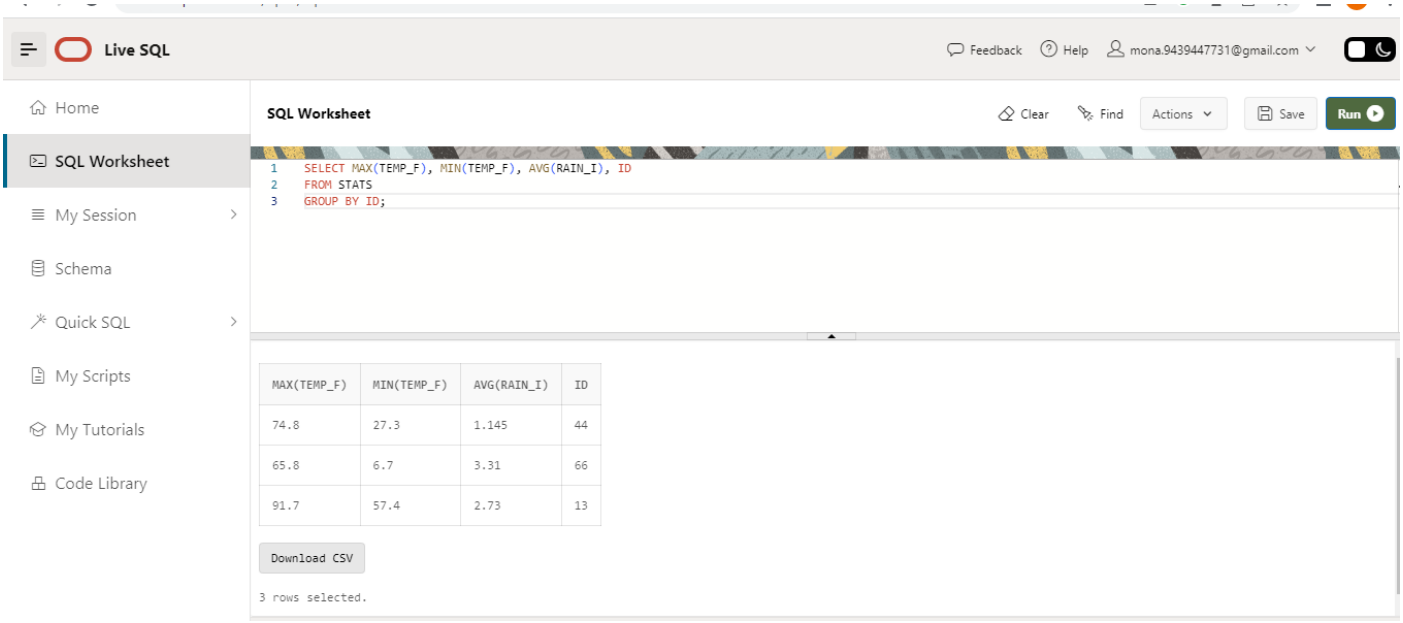
Q 9. Execute a query to look at temperature for July from table STATS, lowest temperatures First, picking up city name and latitude.

Ans:



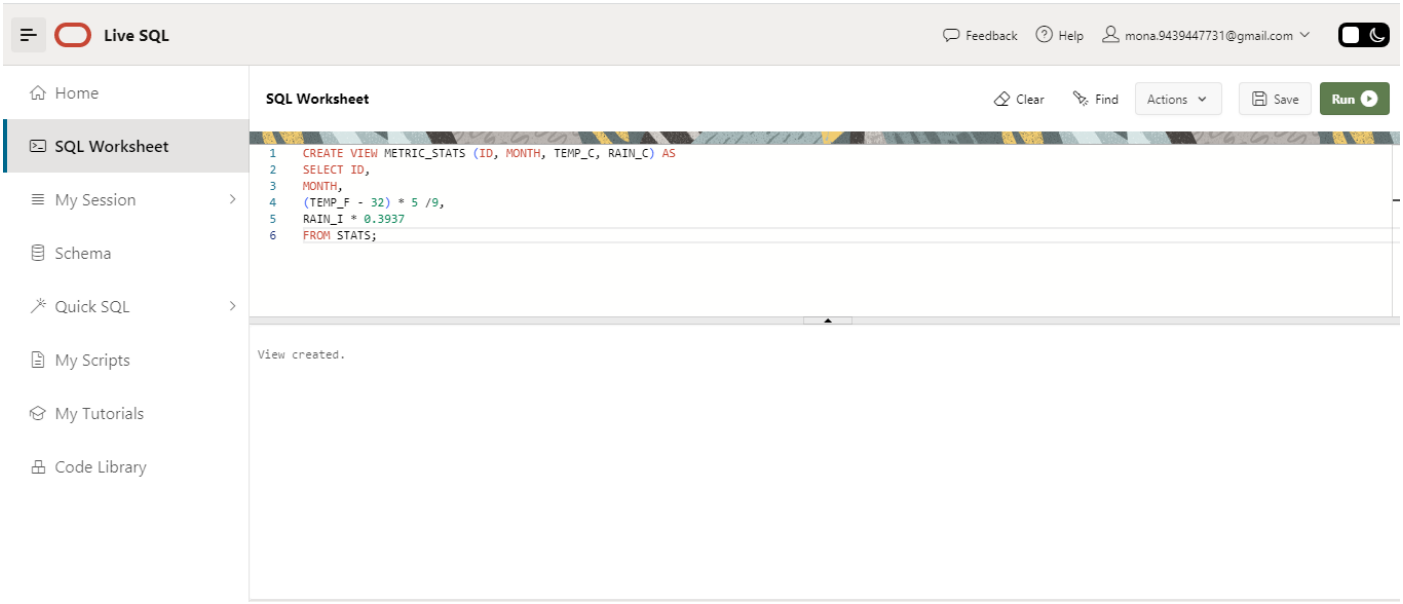
Q 10. Execute a query to show MAX and MIN temperatures as well as average rainfall for each city.

Ans.



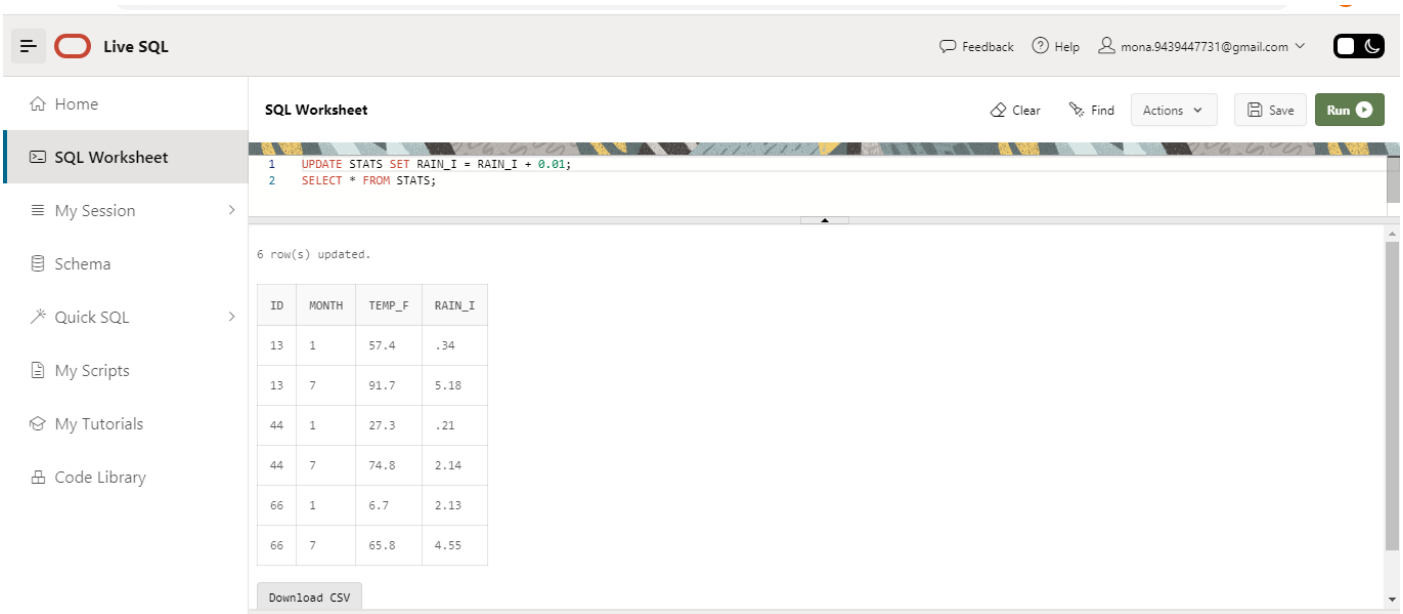
Q 11. Execute a query to display each city's monthly temperature in Celsius and rainfall in centimeter.

Ans.



Q12.Update all rows of table STATS to compensate for faulty rain gauges known to read 0.01 inches low.

Ans.



Q13.Update Denver’s July temperature reading as 74.9

Ans.