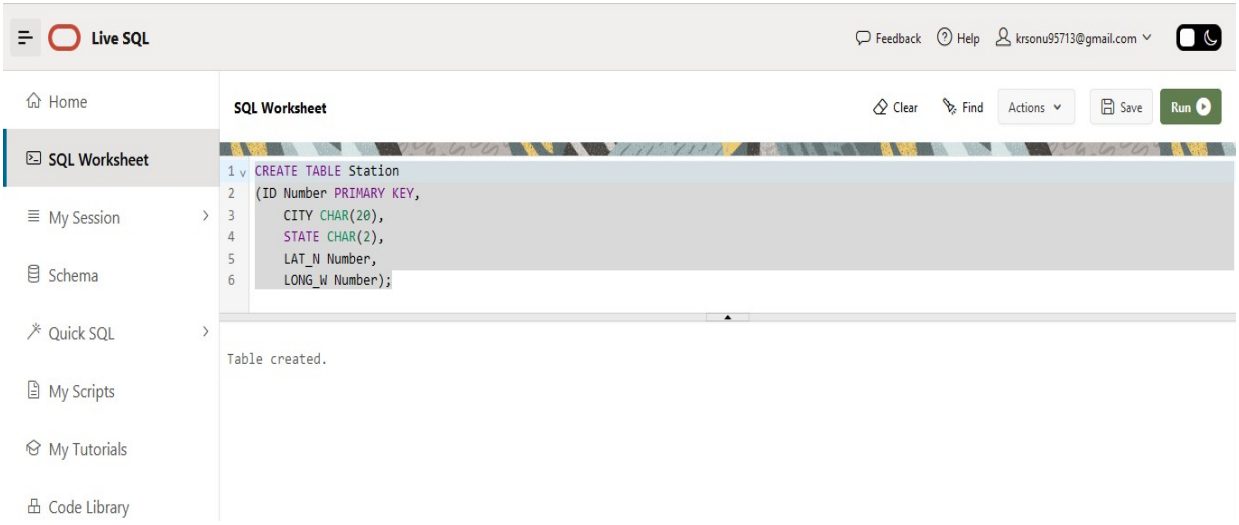
1. Query:-

```
CREATE TABLE Station
(ID Number PRIMARY KEY,
   CITY CHAR(20),
   STATE CHAR(2),
   LAT_N Number,
   LONG_W Number);
```

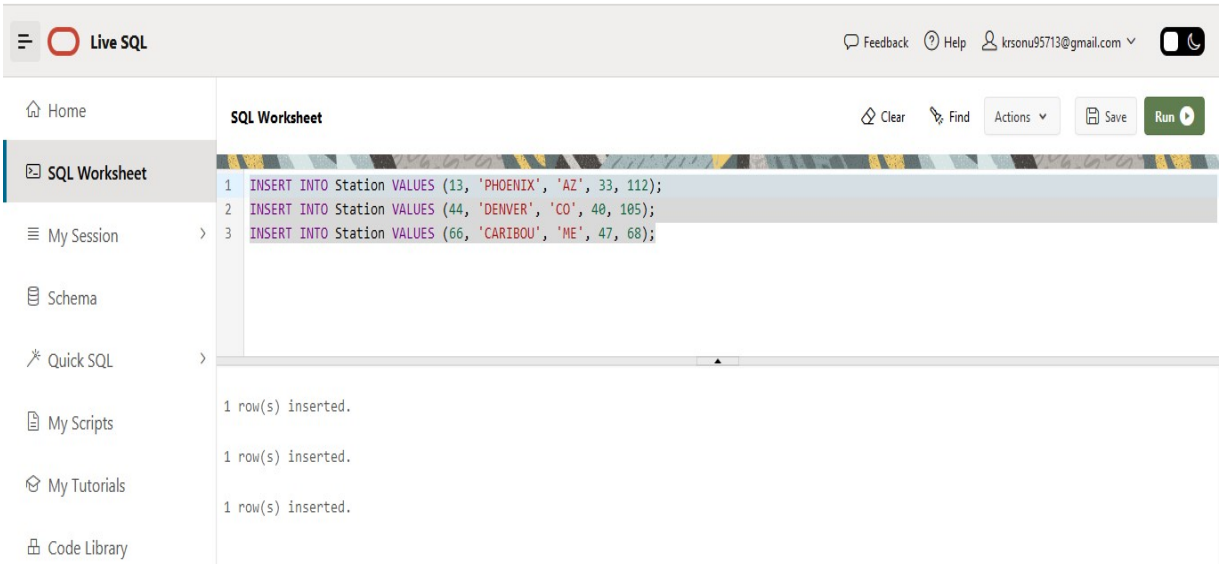
Result:-



2. Query:-

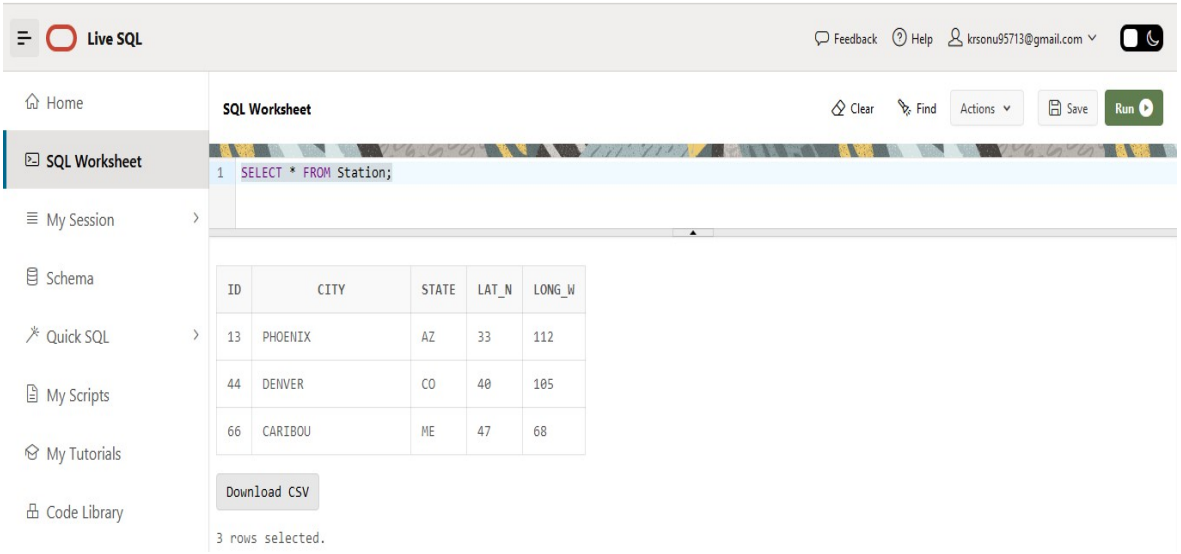
```
INSERT INTO Station VALUES (13, 'PHOENIX', 'AZ', 33, 112);
INSERT INTO Station VALUES (44, 'DENVER', 'CO', 40, 105);
INSERT INTO Station VALUES (66, 'CARIBOU', 'ME', 47, 68);
```

Result:-



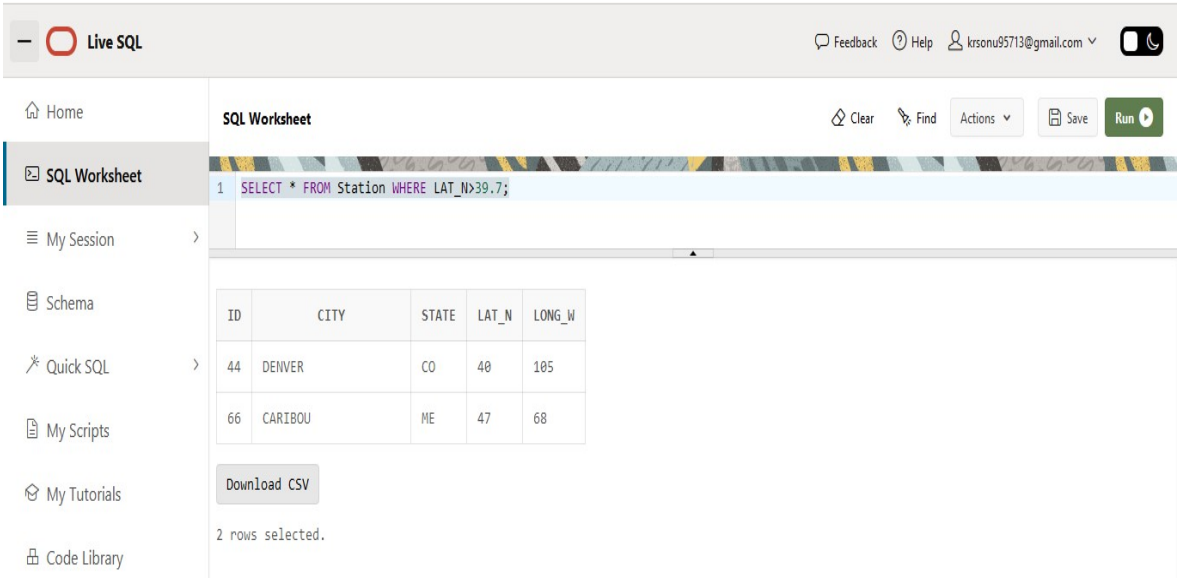
3. Query:-
   SELECT * FROM Station;

   Result:-



4. Query:-
   SELECT * FROM Station WHERE LAT_N>39.7;

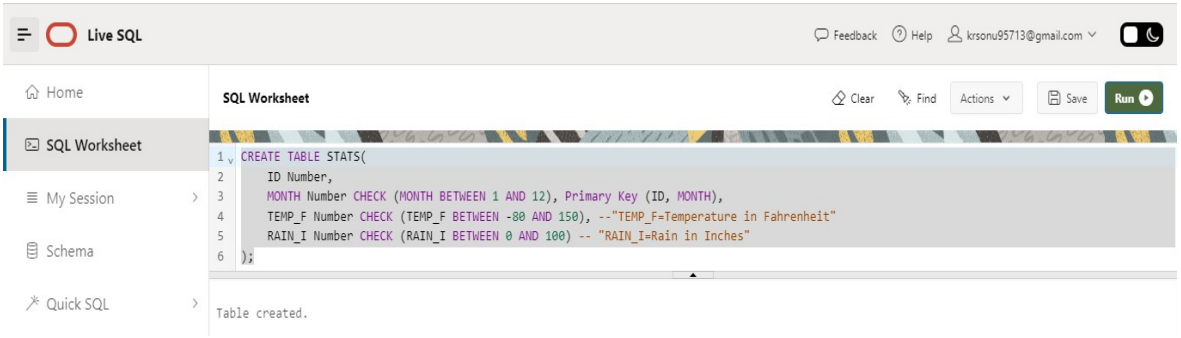
   Result:-



5. Query:-

```
CREATE TABLE STATS(
   ID Number,
   MONTH Number CHECK (MONTH BETWEEN 1 AND 12), Primary Key (ID, MONTH),
   TEMP_F Number CHECK (TEMP_F BETWEEN -80 AND 150), --"TEMP_F=Temperature in Fahrenheit"
   RAIN_I Number CHECK (RAIN_I BETWEEN 0 AND 100) -- "RAIN_I=Rain in Inches"
);
```

Result:-

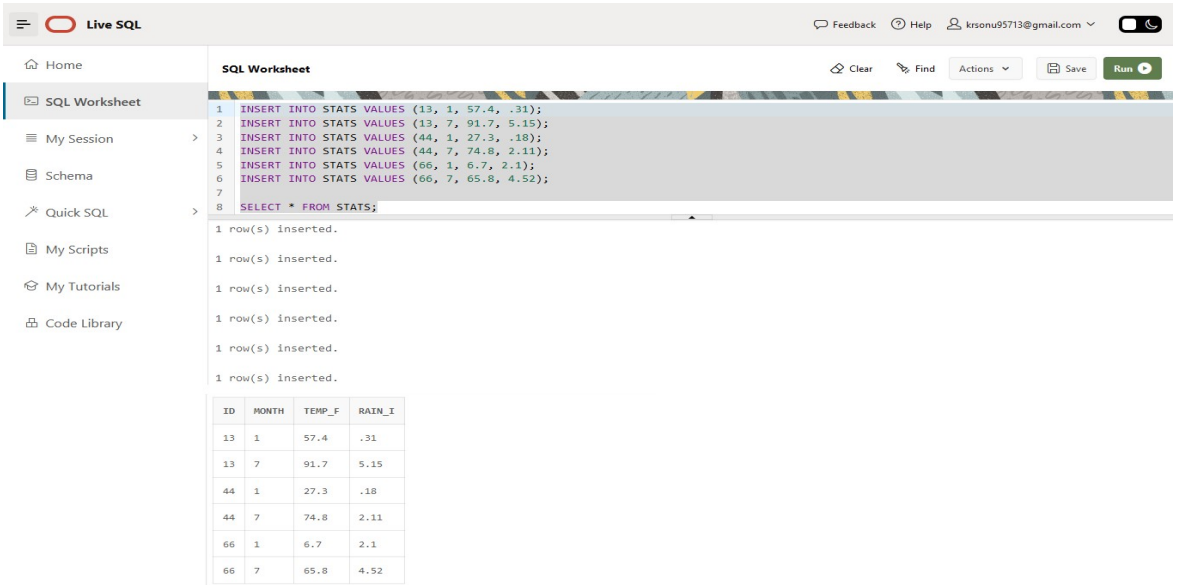


6. Query:-

```
INSERT INTO STATS VALUES (13, 1, 57.4, .31);
INSERT INTO STATS VALUES (13, 7, 91.7, 5.15);
INSERT INTO STATS VALUES (44, 1, 27.3, .18);
INSERT INTO STATS VALUES (44, 7, 74.8, 2.11);
INSERT INTO STATS VALUES (66, 1, 6.7, 2.1);
INSERT INTO STATS VALUES (66, 7, 65.8, 4.52);

SELECT * FROM STATS;
```

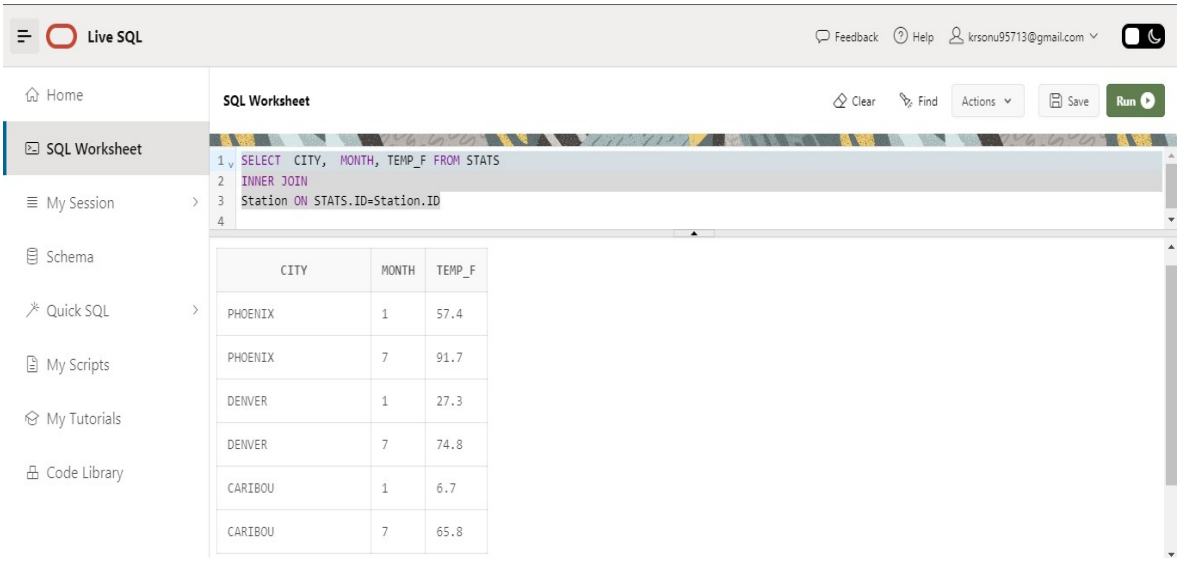
Result:-



7. Query:-

```
SELECT CITY, MONTH, TEMP_F FROM STATS
INNER JOIN
Station ON STATS.ID=Station.ID
```

Result:-

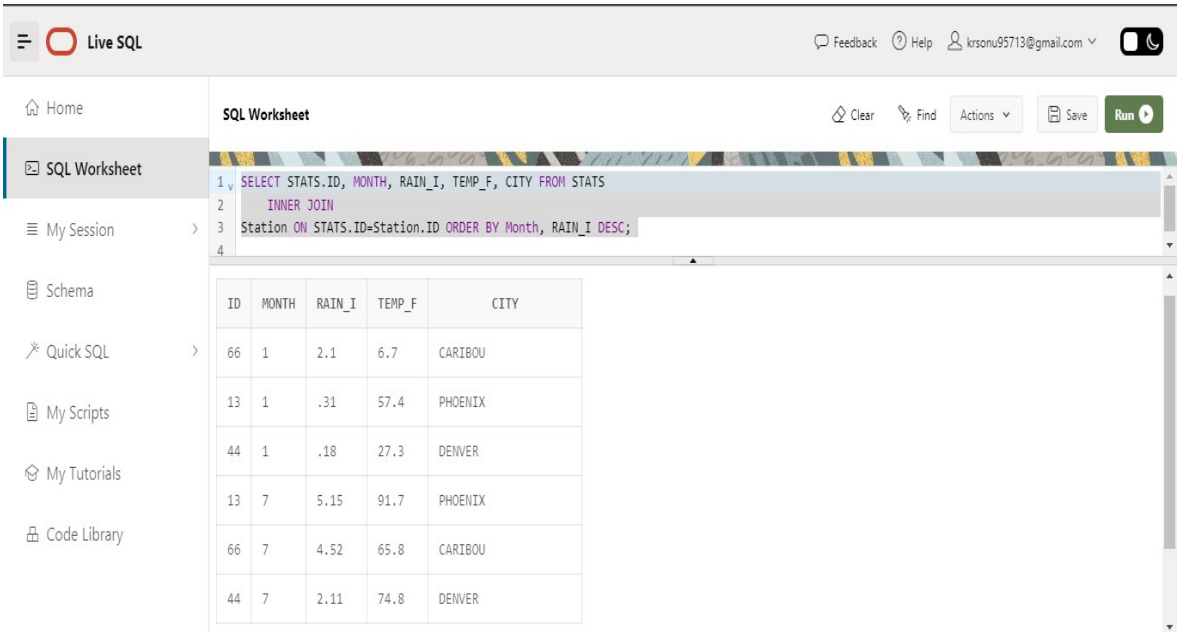


CITY	MONTH	TEMP_F
PHOENIX	1	57.4
PHOENIX	7	91.7
DENVER	1	27.3
DENVER	7	74.8
CARIBOU	1	6.7
CARIBOU	7	65.8

8. Query:-

```
SELECT STATS.ID, MONTH, RAIN_I, TEMP_F, CITY FROM STATS
   INNER JOIN
Station ON STATS.ID=Station.ID ORDER BY Month, RAIN_I DESC;
```

Result:-

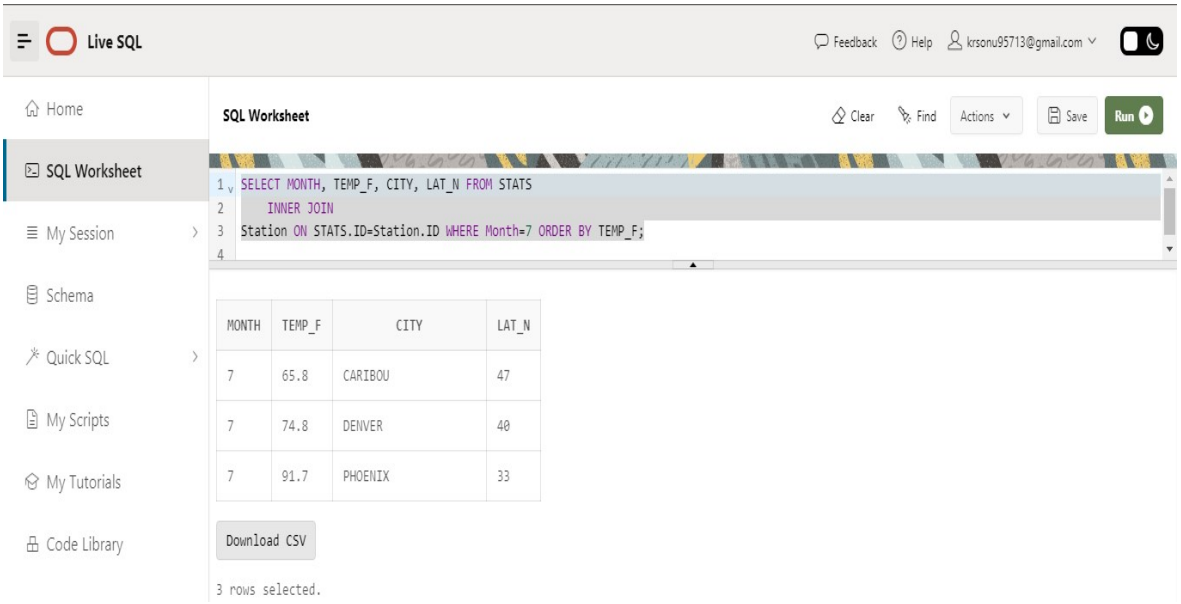


ID	MONTH	RAIN_I	TEMP_F	CITY
66	1	2.1	6.7	CARIBOU
13	1	.31	57.4	PHOENIX
44	1	.18	27.3	DENVER
13	7	5.15	91.7	PHOENIX
66	7	4.52	65.8	CARIBOU
44	7	2.11	74.8	DENVER

9. Query:-

```
SELECT MONTH, TEMP_F, CITY, LAT_N FROM STATS
  INNER JOIN
Station ON STATS.ID=Station.ID WHERE Month=7 ORDER BY TEMP_F;
```

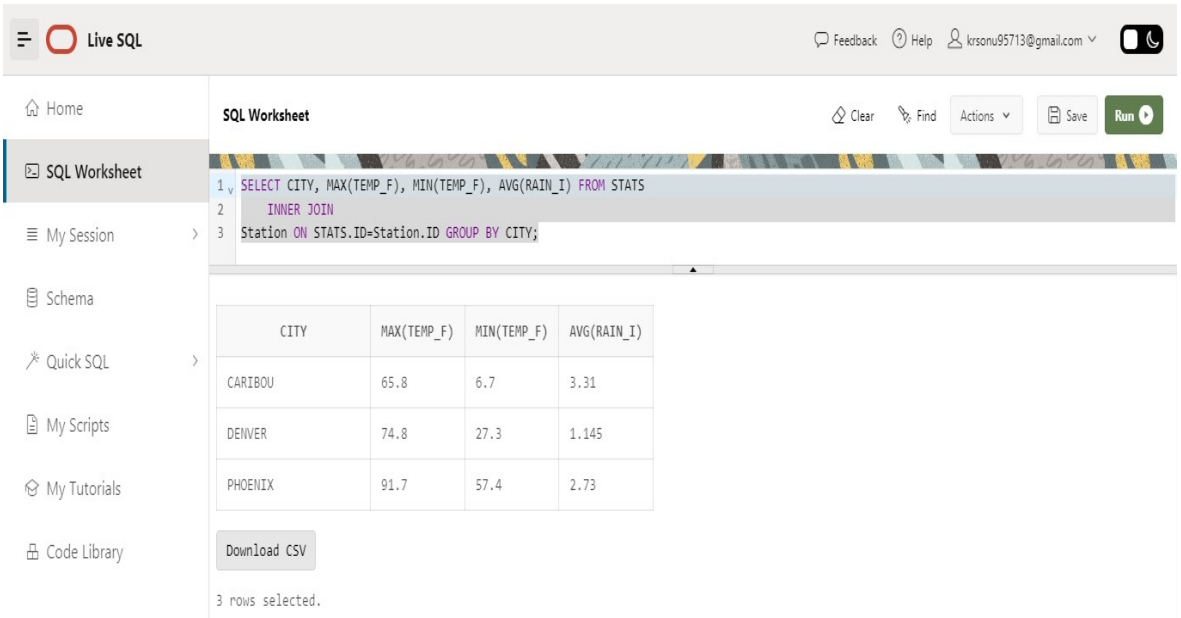
Result:-



10. Query:-

```
SELECT CITY, MAX(TEMP_F), MIN(TEMP_F), AVG(RAIN_I) FROM STATS
  INNER JOIN
Station ON STATS.ID=Station.ID GROUP BY CITY;
```

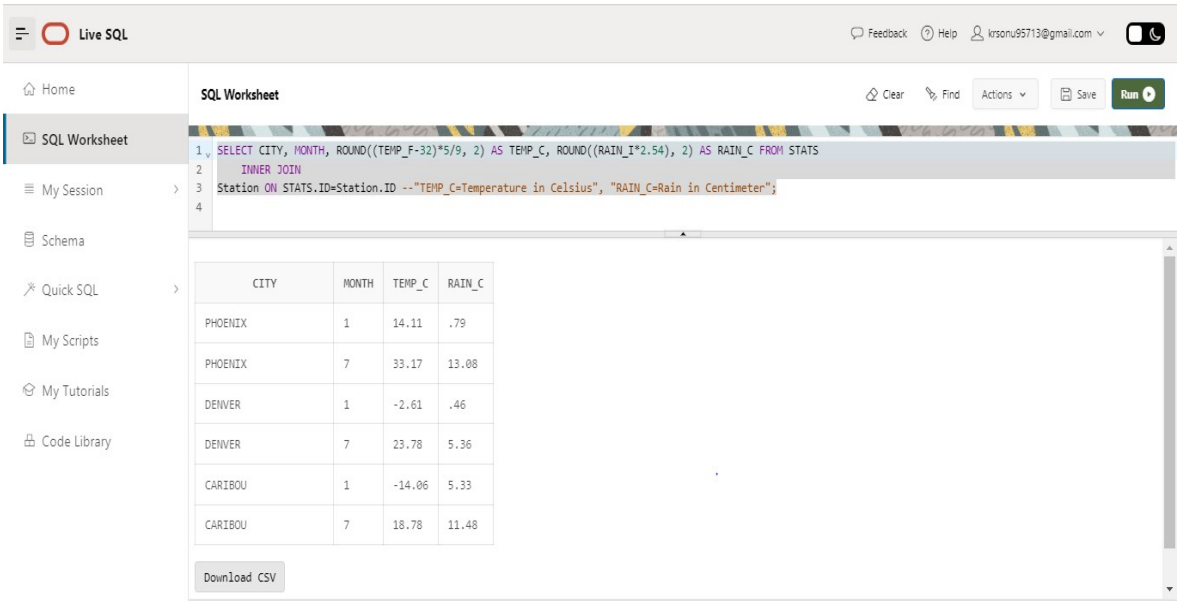
Result:-



11. Query:-

```
SELECT CITY, MONTH, ROUND((TEMP_F-32)*5/9, 2) AS TEMP_C, ROUND((RAIN_I*2.54), 2) AS RAIN_C
FROM STATS
  INNER JOIN
Station ON STATS.ID=Station.ID --"TEMP_C=Temperature in Celsius", "RAIN_C=Rain in Centimeter";
```

Result:-

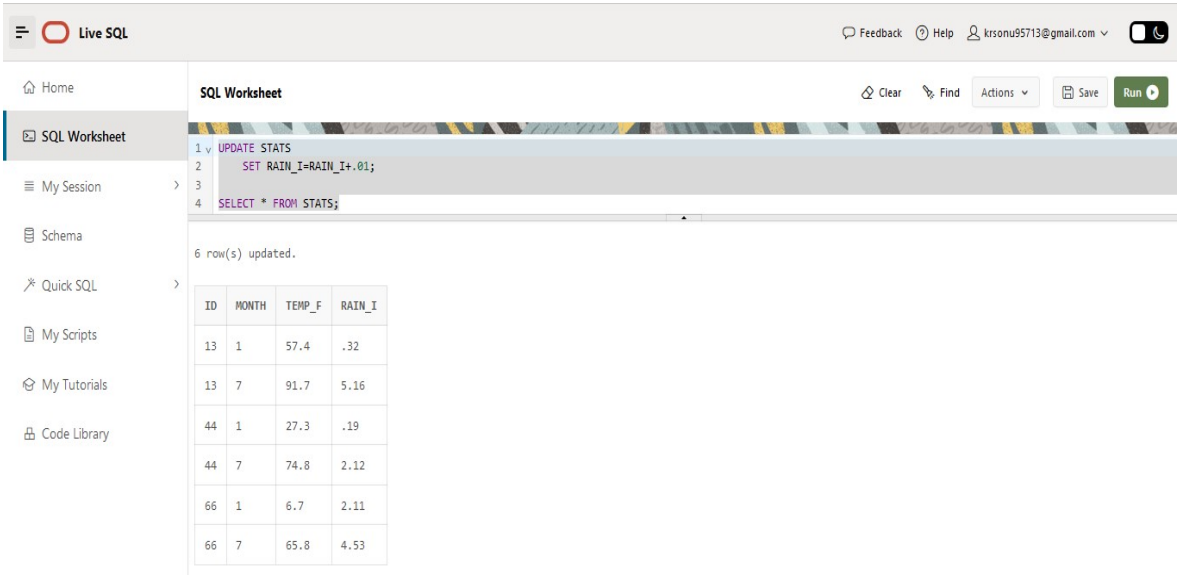


12. Query:-

```
UPDATE STATS
  SET RAIN_I=RAIN_I+.01;

SELECT * FROM STATS;
```

Result:-



13. Query:-

```
UPDATE (SELECT CITY, MONTH, TEMP_F FROM STATS
  INNER JOIN Station ON STATS.ID=Station.ID)
  SET TEMP_F=74.9 WHERE CITY='DENVER' AND Month =7;

SELECT CITY, MONTH, TEMP_F FROM STATS
  INNER JOIN Station ON STATS.ID=Station.ID;
```

Result:-