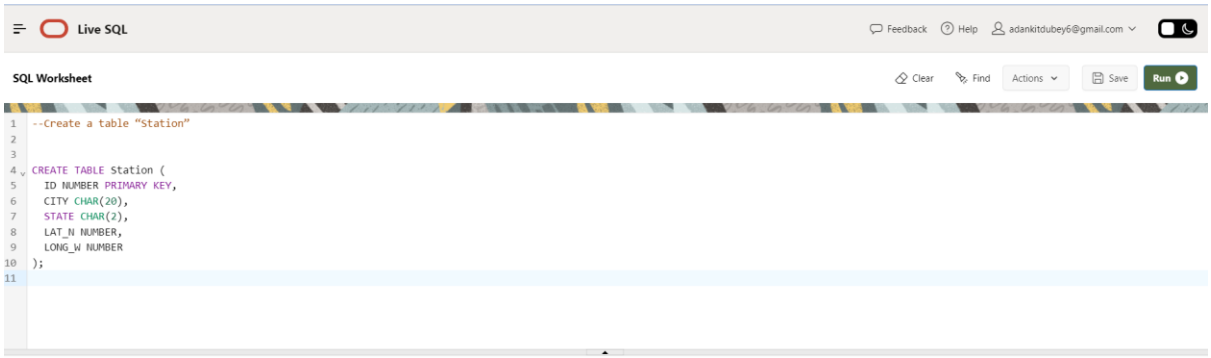
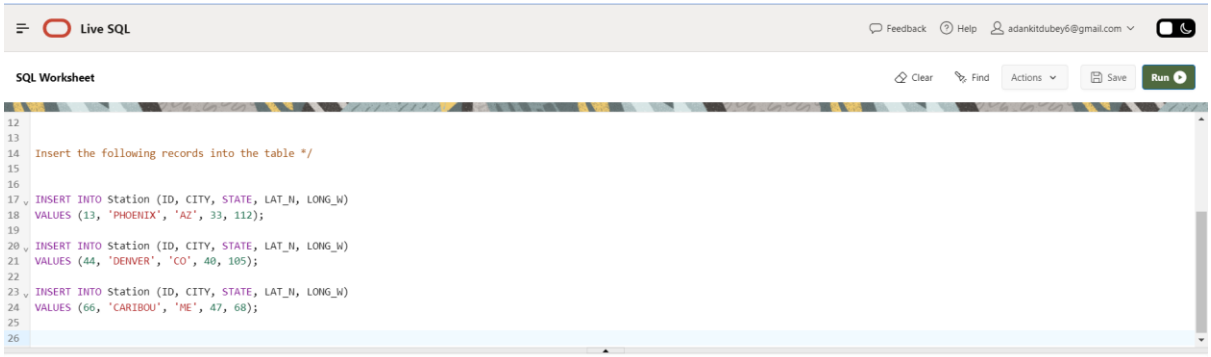


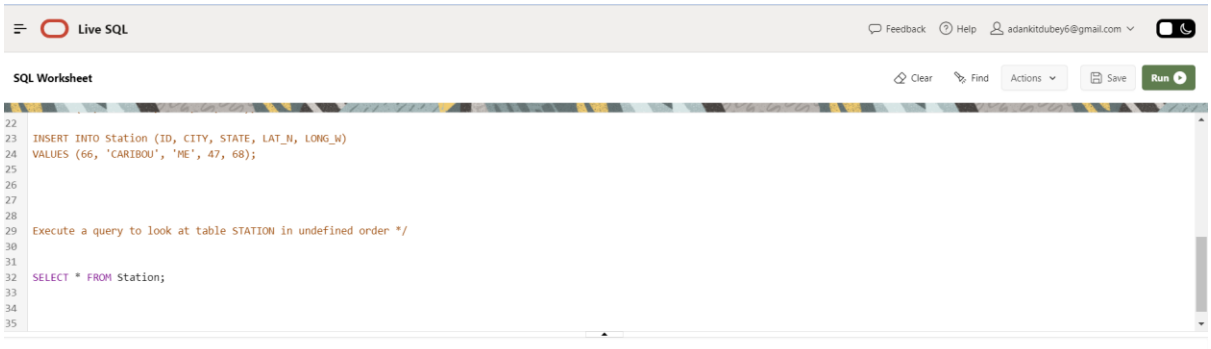

```
--Create a table “Station”


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

```
Table created.
```




```


Insert the following records into the table */


INSERT INTO Station (ID, CITY, STATE, LAT_N, LONG_W)
VALUES (13, 'PHOENIX', 'AZ', 33, 112);

INSERT INTO Station (ID, CITY, STATE, LAT_N, LONG_W)
VALUES (44, 'DENVER', 'CO', 40, 105);

INSERT INTO Station (ID, CITY, STATE, LAT_N, LONG_W)
VALUES (66, 'CARIBOU', 'ME', 47, 68);

```

```
1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.
```




```
INSERT INTO Station (ID, CITY, STATE, LAT_N, LONG_W)
VALUES (66, 'CARIBOU', 'ME', 47, 68);



Execute a query to look at table STATION in undefined order */


SELECT * FROM Station;
```

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

Download CSV

3 rows selected.

Live SQL

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SQL Worksheet

Clear Find Actions Save Run

```
Execute a query to look at table STATION in undefined order


SELECT * FROM Station;



Execute a query to select Northern stations (Northern latitude > 39.7) */


SELECT * FROM Station WHERE LAT_N > 39.7;


```

ID	CITY	STATE	LAT_N	LONG_W
44	DENVER	CO	40	105
66	CARIBOU	ME	47	68

Download CSV

2 rows selected.

Live SQL

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SQL Worksheet

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```


Create another table , 'STATS' */


CREATE TABLE STATS (
  ID NUMBER,
  MONTH NUMBER CHECK (MONTH BETWEEN 1 AND 12),
  TEMP_F NUMBER CHECK (TEMP_F BETWEEN -80 AND 150),
  RAIN_I NUMBER CHECK (RAIN_I BETWEEN 0 AND 100),
  CONSTRAINT PK_STATS PRIMARY KEY (ID, MONTH),
  CONSTRAINT FK_STATS_STATION FOREIGN KEY (ID) REFERENCES Station(ID)
);


```

Table created.

Live SQL

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SQL Worksheet

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```
Populate the table STATS */

INSERT INTO STATS (ID, MONTH, TEMP_F, RAIN_I)
VALUES (13, 1, 57.4, 0.31);

INSERT INTO STATS (ID, MONTH, TEMP_F, RAIN_I)
VALUES (13, 7, 91.7, 5.15);

INSERT INTO STATS (ID, MONTH, TEMP_F, RAIN_I)
VALUES (44, 1, 27.3, 0.18);

INSERT INTO STATS (ID, MONTH, TEMP_F, RAIN_I)
VALUES (44, 7, 74.8, 2.11);

INSERT INTO STATS (ID, MONTH, TEMP_F, RAIN_I)
VALUES (66, 1, 6.7, 2.1);

INSERT INTO STATS (ID, MONTH, TEMP_F, RAIN_I)
VALUES (66, 7, 65.8, 4.52);
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

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SQL Worksheet

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```
VALUES (66, 7, 65.8, 4.52);



Execute a query to display temperature stats (from STATS table) for each city (from Station table) */


SELECT s.CITY, AVG(st.TEMP_F) AS AVG_TEMPERATURE, MAX(st.TEMP_F) AS MAX_TEMPERATURE, MIN(st.TEMP_F) AS MIN_TEMPERATURE
FROM Station s
JOIN STATS st ON s.ID = st.ID
GROUP BY s.CITY;
```

CITY	AVG_TEMPERATURE	MAX_TEMPERATURE	MIN_TEMPERATURE
CARIBOU	36.25	65.8	6.7
DENVER	51.05	74.8	27.3
PHOENIX	74.55	91.7	57.4

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3 rows selected.

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SQL Worksheet

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```


Execute a query to look at the table STATS */


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

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

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6 rows selected.

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SQL Worksheet

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```


Execute a query to look at temperatures for July from table STATS , lowest temperatures first , picking up city name and latitude  */


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

CITY	LAT_N	TEMP_F
CARIBOU	47	65.8
DENVER	40	74.8
PHOENIX	33	91.7

Download CSV

3 rows selected.

CITY	MAX_TEMPERATURE	MIN_TEMPERATURE	AVG_RAINFALL
CARIBOU	65.8	6.7	3.31
DENVER	74.8	27.3	1.145
PHOENIX	91.7	57.4	2.73

Download CSV

3 rows selected.

CITY	MONTH	TEMP_CELSIUS	RAIN_CM
PHOENIX	1	14.11	.79
PHOENIX	7	33.17	13.08
DENVER	1	-2.61	.46
DENVER	7	23.78	5.36
CARIBOU	1	-14.06	5.33
CARIBOU	7	18.78	11.48

Download CSV

6 rows selected.


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Clear
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Run
FROM STATS st
JOIN Station s ON st.ID = s.ID;
Update all rows of table STATS to compensate for faulty rain gauges known to read 0.01 inches low */
UPDATE STATS
SET RAIN_I = RAIN_I + 0.01;
6 row(s) updated.


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SQL Worksheet
Clear
Find
Actions
Save
Run
Update DENVER's July temperature reading as 74.9 */
UPDATE STATS
SET TEMP_F = 74.9
WHERE ID = (SELECT ID FROM Station WHERE CITY = 'DENVER') AND MONTH = 7;
1 row(s) updated.