Statement **2**

🗑 Edit

```
CREATE  TABLE STATION
(
 ID INTEGER PRIMARY KEY,
 CITY CHAR (20),
 STATE CHAR (2),
 LAT_N NUMBER (10),
 LONG_W NUMBER (10)
)
```

Table created.

Statement **3**

🗑 Edit

```
INSERT INTO STATION VALUES
(13,'PHOENIX','AZ',33,112)
```

1 row(s) inserted.

Statement **4**

🗑 Edit

```
INSERT INTO STATION VALUES
(44,'DENVER','CO',40,105)
```

1 row(s) inserted.

Statement **5**

🗑 Edit

```
INSERT INTO STATION VALUES
(66,'CARIBOU','ME',47,68)
```

```
CREATE TABLE STATS
(
 ID INTEGER REFERENCES STATION(ID),
 MONTH INTEGER CHECK(MONTH BETWEEN 1 AND 12),
 TEMP_F REAL CHECK (TEMP_F BETWEEN -80 AND 150),
 RAIN_I REAL CHECK (RAIN_I BETWEEN 0 AND 100),
 PRIMARY KEY (ID,MONTH)
)
```

Table created.

Statement 7

```
INSERT INTO STATS VALUES
(13,1,57.4,.31)
```

1 row(s) inserted.

Statement 8

```
INSERT INTO STATS VALUES
(13,7,91.7,5.15)
```

1 row(s) inserted.

Statement 9

```
INSERT INTO STATS VALUES
(44,1,27.3,.18)
```

1 row(s) inserted.

```
1  SELECT CITY,STATE,LAT_N,LONG_W
2  FROM STATION
3  ORDER BY CITY;
```

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

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```
1   SELECT *
2   FROM STATION
3   WHERE LAT_N>39.7;
```

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

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Index Name	Index Type	Uniqueness	Status	Columns
SYS_C00112693566	NORMAL	UNIQUE	VALID	ID, MONTH

Triggers

No triggers defined.

Constraints

Constraint	Type	Condition	On Delete	Status	Last Change	Invalid?
SYS_C00112693562	Check	MONTH BETWEEN 1 AND 12	-	ENABLED	39 minutes ago	-
SYS_C00112693564	Check	TEMP_F BETWEEN -80 AND 150	-	ENABLED	39 minutes ago	-
SYS_C00112693565	Check	RAIN_I BETWEEN 0 AND 100	-	ENABLED	39 minutes ago	-
SYS_C00112693567	Foreign Key	-	NO ACTION	ENABLED	39 minutes ago	-
SYS_C00112693566	Primary Key	-	-	ENABLED	39 minutes ago	-

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Worksheet

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```sql
26    );
27
28    INSERT INTO STATS VALUES
29    (13,1,57.4,.31);
30
31    INSERT INTO STATS VALUES
32    (13,7,91.7,5.15);
33
34    INSERT INTO STATS VALUES
35    (44,1,27.3,.18);
36
37    INSERT INTO STATS VALUES
38    (44,7,74.8,2.11);
39
40    INSERT INTO STATS VALUES
41    (66,1,6.7,2.1);
42
43    INSERT INTO STATS VALUES
44    (66.7,65.8,4.52);
```

SQL Worksheet

```
1   SELECT CITY,TEMP_F  AS TEMPERATURE_
2   FROM STATS
3   INNER JOIN STATION
4   ON (STATS.ID=STATION.ID)
5   GROUP BY CITY,TEMP_F ;
6
```

CITY	TEMPERATURE_
PHOENIX	91.7
CARIBOU	6.7
DENVER	74.8
PHOENIX	57.4
CARIBOU	65.8
DENVER	27.3

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SQL Worksheet

```sql
1    SELECT MONTH,ID,RAIN_I,TEMP_F
2    FROM STATS
3    ORDER BY MONTH, RAIN_I DESC;
```

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

SQL Worksheet

```sql
1  SELECT LAT_N,CITY,TEMP_F
2  FROM STATS,STATION
3  WHERE MONTH=7
4  AND STATS.ID=STATION.ID
5  ORDER BY TEMP_F
```

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

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3 rows selected.

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```
1   SELECT MAX(TEMP_F),MIN(TEMP_F),AVG(RAIN_I)CITY
2   FROM STATS,STATION
3   GROUP BY CITY;
4
```

MAX(TEMP_F)	MIN(TEMP_F)	CITY
91.7	6.7	2.395
91.7	6.7	2.395
91.7	6.7	2.395

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3 rows selected.

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```
1   SELECT CITY,MONTH,TEMP_F,RAIN_I,
2   CASE WHEN RAIN_I <=5.15 AND RAIN_I >2.1 THEN 'CENTIMETER'
3       |  WHEN RAIN_I<=.18 AND RAIN_I >5.15 THEN 'IN'
4   END
5   FROM STATION,STATS;
```

CITY	MONTH	TEMP_F	RAIN_I	CASEWHENRAIN_I<=5.15ANDRAIN_I>2.1THEN'CENTIMETER'WHENRAIN_I<=.18ANDRAIN_I>5.15THEN'IN'END
PHOENIX	1	57.4	.31	-
PHOENIX	7	91.7	5.15	CENTIMETER
PHOENIX	1	27.3	.18	-
PHOENIX	7	74.8	2.11	CENTIMETER
PHOENIX	1	6.7	2.1	-
PHOENIX	7	65.8	4.52	CENTIMETER
DENVER	1	57.4	.31	-
DENVER	7	91.7	5.15	CENTIMETER
DENVER	1	27.3	.18	-

Clear   Find   Actions ∨   Save   Run ▶

```
1    UPDATE STATS SET RAIN_I=RAIN_I + 0.01;
2
3    SELECT * FROM STATS
```

6 row(s) updated.

ID	MONTH	TEMP_F	RAIN_I
13	1	57.4	.33
13	7	91.7	5.17
44	1	27.3	.2
44	7	74.9	2.13
66	1	6.7	2.12
66	7	65.8	4.54

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```
1    UPDATE STATS SET TEMP_F=74.9
2    WHERE ID = 44
3    AND MONTH=7;
4
5    SELECT * FROM STATS
6
```

1 row(s) updated.

ID	MONTH	TEMP_F	RAIN_I
13	1	57.4	.33
13	7	91.7	5.17
44	1	27.3	.2
44	7	74.9	2.13
66	1	6.7	2.12
66	7	65.8	4.54

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