```
3 /* Check for total rows */
4 SELECT COUNT(*) as total days FROM daily weather;
6 /*Showing unique rows */
7 SELECT COUNT (DISTINCT date) as unique_days FROM daily_weather;
9 /* because unique rows and total rows are not the same, there are duplicate dates */
10 /*Checking the duplicates rows */
12 SELECT * FROM daily_weather
13 WHERE date IN (
      SELECT date FROM daily weather
      GROUP BY date
      HAVING COUNT (*) > 1
17 )
18 ORDER BY date;
20 /* Question 2: What was the highest temperature recorded, and on what date did it occur? */
22 SELECT dw.date, dw.tmax f
23 FROM daily weather dw
24 ORDER BY tmax f DESC
25 LIMIT 10;
28 /* Alternative query */
30 SELECT date, tmax_f FROM daily_weather
31 WHERE tmax_f = (SELECT MAX(tmax_f) FROM daily_weather);
33 /* Question 3: What was the lowest temperature recorded, and on what date did it occur? */
35 SELECT dw.date, dw.tmin_f
36 FROM daily weather dw
37 ORDER BY tmin f ASC
38 LIMIT 8;
40 /*Alternative Query */
41 SELECT date, tmin f
42 FROM daily weather WHERE tmin f = (SELECT MIN(tmin f) FROM daily weather);
45 /* Question 4: How many days each year had "extreme heat" (temperature > 90°F)? */
46 SELECT strftime('%Y', date) AS year, COUNT(*) AS N Hot days
47 FROM daily_weather
48 WHERE tmax_f > 90
49 GROUP BY year
50 ORDER BY CAST (year AS INT)
53 /* Question 5: How many days each year had "extreme cold" (temperature < 32°F)? */
55 SELECT year, COUNT(*) AS COLD DAYS
56 FROM daily weather
57 WHERE tmin f < 32
58 GROUP BY year;
59
60 /* Question 6: What is the average wind speed for each year? */
62 SELECT year, round (avg (wspd mph), 0) AS AV Wind SPD
```

1

```
63 FROM daily weather
64 GROUP BY year;
66 /* Question 7: On how many days did wind speeds exceed 20 mph? */
68 SELECT COUNT (*) AS N Ex20
69 FROM daily_weather
70 WHERE wspd mph > 20
72 /* What's if we want to find them per year?! */
73 SELECT year, COUNT(*) AS N W Ex20
74 FROM daily weather
75 WHERE wspd_mph > 20
76 GROUP BY year
77 ORDER BY CAST ( year AS INT);
78
80 / * 8- *How many "extreme weather days" (temp > <math>90 ° F, temp < 32 ° F, OR wind > 20 mph) occurred each year */
81
82 SELECT year, COUNT(*) AS Ex Weather days
83 FROM daily weather
84 WHERE tmax f > 90 OR tmin f < 32 OR wspd mph > 20
85 GROUP BY year
86 ORDER BY CAST (year AS INT);
87
88
89 /* What if we want to get just the total across the years?! */
90 SELECT COUNT(*) AS EX weather days
91 FROM daily_weather
92 WHERE (tmax f > 90 OR tmin f < 32 OR wspd mph > 20);
94 /* 9- Which month had the highest number of extreme weather days across the dataset? */
95 SELECT strftime ('%m', date) AS month, COUNT(*) AS EX Weather
96 FROM daily weather
97 WHERE (tmax_f > 90 OR tmin_f < 32 OR wspd_mph > 20)
98 GROUP BY month
99 ORDER BY Ex Weather DESC
100 LIMIT 5;
101
102
103 /* 10- What percentage of all recorded days were extreme weather days? */
104
105 SELECT COUNT(*) FROM daily weather AS Total Records;
107 SELECT COUNT(*) FROM daily weather AS Ext Weather
108 WHERE (tmax f >90 OR tmin f <32 OR wspd mph > 20);
109
110 SELECT ROUND (100.0 * 265.0/370.0, 1) || '%' AS pct_extreme_days;
111
112
```