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Project: Weather Observation

Q1: create database project_db;

```
create table Station
(ID int,
CITY char(20),
STATE char(20),
LAT_N int,
LONG_W int,
constraint st_pk primary key (ID)
);
```

Q2:

```
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');
```

Q3:

```
select* from station;
```

Q4:

```
select CITY, LAT_N as NorthernStation
from station
where LAT_N > '39.7';
```

Q5:

```
Create table STATS
( ID int,
MONTH_ int,
TEMP_F decimal(4,1),
RAIN_I decimal(4,2),
constraint STA_fk foreign key (ID) references Station (ID)
);
```

Q6: insert into stats(ID, MONTH_, TEMP_F, RAIN_I)

values ('13', '1', '57.4', '.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', '.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');

Q7: select station.ID, City, TEMP_F

from station, stats

where station.ID = stats.ID;

Q8: select station.ID, city,month_,(RAIN_I) as greatest_rainfall

from station, stats

where station.ID = stats.ID

order by month_, rain_i ;

Q9: select station.ID, City, LAT_N, (TEMP_F) as lowest_temperature

from station, stats

where station.ID = stats.ID and month_ = '7'

order by (TEMP_F);

Q10: select station.ID, City, max(TEMP_F) as MaxTemp, min(TEMP_F) as MinTemp, Avg(RAIN_I) as AvgRain

from station,stats

where station.ID = stats.ID

group by City;

Q11: select ID, month_, (temp_f - 32)*5/9 as TempC, (rain_i * 0.3937) as RainCM

from stats;

Q12: update stats

set rain_ = rain_ + 0.01;

Q13: update stats

set temp_f = 74.9

where ID = 44 and Month = 7;