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Business analyst

SQL assignment

```
1 • create database Temp_region;
  2 • use Temp_region;
        -- Q1 Assignment-SQL[Major]Q1)Createatable"STATION"tostoreinformationaboutweatherobservationstations
  5 • ⊝ create table STATION (
        ID int primary key,
        CITY char(20),
  7
        STATE char(2),
  8
  9
        LAT_N int,
        LONG_W int
 10
 11
       ٠);
12
13
        -- Q2
14 •
        insert into station values (13, "PHOENIX", "AZ", 33, 112), (44, "DENVER", "CO", 40, 105),
        (66, "CARIBOU", "ME", 47, 68);
15
16
  16
  17
          -- Q3
         select * from station;
                                       | Edit: 🔏 🖶 | Export/Import: 🏭 🐻 | Wrap Cell Content: 🏗
 CITY
                  STATE LAT_N LONG_W
    13
         PHOENIX
                  ΑZ
                        33
                               112
                               105
    44
         DENVER
                  CO
                        40
    66
         CARIBOU
                  ME
                        47
                               68
                               NULL
                  NULL
                        NULL
 NULL
         NULL
```

```
22
        -- Q4 Northernlatitude>39.7
23 •
        select * from station where lat_n>39.7;
24
                                          Edit: 🚄 🖶 🖶 Export/Import
ID
        CITY
                  STATE LAT_N LONG_W
        DENVER
                 CO
                                 105
        CARIBOU
                                68
  66
                 ME
                         47
       NULL
                 NULL
                         NULL
                                NULL
 NULL
  25
         -- Q5
  26 • ⊝ create table stats (
         ID int,
  27
         MONTH int,
  28
         TEMP_F int,
  29
  30
         RAIN_I int);
  31
  32
         -- 06
  33 •
         insert into stats values(13,1,57.4,0.31),(13,7,91.7,5.15),(44,1,27.3,0.18),(44,7,74.8,2.11),
  34
         (66,1,6.7,2.1),(66,7,65.8,4.52);
         select * from stats;
  35 •
  36
                                      Export: Wrap Cell Content: IA
 MONTH TEMP_F RAIN_I
    ΙD
   13
         1
                57
   13
        7
                92
                       5
   44
                27
                       0
         1
   44
         7
                75
                       2
   66
        -- Q7 Executeaquerytodisplaytemperaturestats(fromtheSTATStable)foreachcity(fromtheSTATIONtable).
        select station.city , stats.temp f from station left join stats on station.id=stats.id ;
 Export: Wrap Cell Content: IA
           temp_f
   city
PHOENIX
           92
   PHOENIX
           57
   DENVER
   DENVER
           27
   CARIBOU 66
   CARIBOU 7
```

```
40
         -- Q8 ExecuteaquerytolookatthetableSTATS,orderedbymonthandgreatestrainfall,withcolumnsrearranged.
         -- Itshouldalsoshowthecorrespondingcities.
 41
 42 •
        select stats.id, stats.month, stats.temp_f, stats.rain_i , station.city from stats left join station
        on stats.id=station.id order by MONTH and RAIN I desc;
 43
 44
Export: Wrap Cell Content: IA
               temp f
                      rain i
                             city
                             PHOENIX
                             DENVER
               75
                      2
               7
                             CARIBOU
   66
        1
        7
               66
  66
                      5
                             CARIBOU
   13
               57
                      0
                             PHOENIX
        1
   44
        1
                      0
                            DENVER
               27
        -- Q9 ExecuteaquerytolookattemperaturesforJulyfromtableSTATS,lowesttemperaturesfirst,pickingupcitynameandlatitude.
 45
        select stats.temp_f , station.city,station.lat_N from station left join stats
 46 •
 47
        on stats.id=station.id order by stats.temp_f;
                                     Export: Wrap Cell Content: IA
                                                                                                               Result Grid Filter Rows:
         city
   temp_f
                  lat_N
         CARIBOU
                 47
  27
         DENVER
                 40
  57
         PHOENIX
                 33
  66
         CARIBOU
                 47
  75
         DENVER
                 40
  92
         PHOENIX 33
         -- Q10 ExecuteaquerytoshowMAXandMINtemperaturesaswellasaveragerainfallforeachcity.
 48
 49 •
         select max(temp_f) , min(temp_f) , avg(rain_i) , station.city from stats left join station
          on stats.id=station.id group by station.city
 50
 51
Export: Wrap Cell Content: IA
   max(temp_f)
               min(temp_f)
                         avg(rain_i)
                                     city
                          2.5000
                                    PHOENIX
   75
               27
                          1.0000
                                    DENVER
   66
                          3.5000
                                    CARIBOU
```

