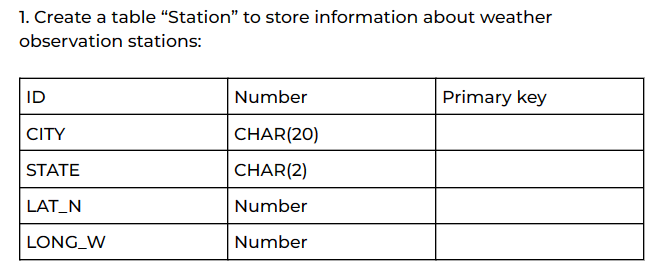
**Answer Sheet - SQL**

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**Question 1**

****

Insert Image-

*Create table Station*

*(*

*ID number Primary Key,*

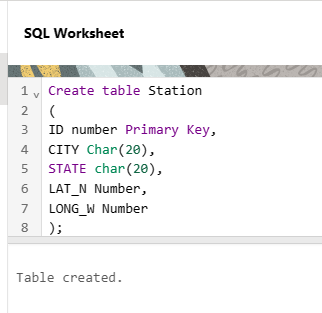
*CITY Char(20),*

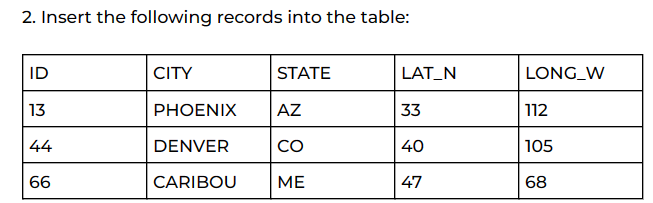
*STATE char(20),*

*LAT\_N Number,*

*LONG\_W Number*

*);*



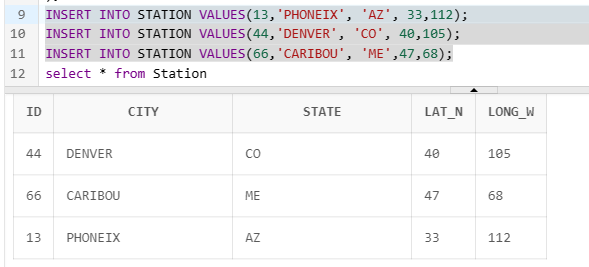


*INSERT INTO STATION VALUES (13,'PHONEIX', 'AZ', 33,112);*

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

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

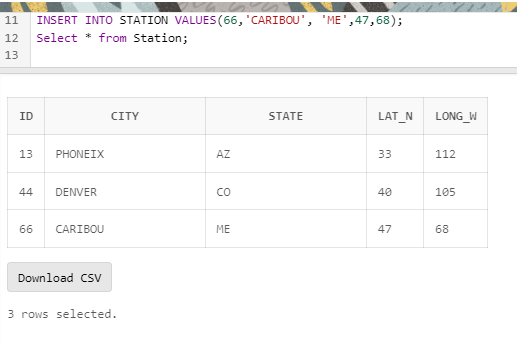
Insert Image –



3. Execute a query to look at table STATION in undefined order

*Select \* from Station*

Insert Image –

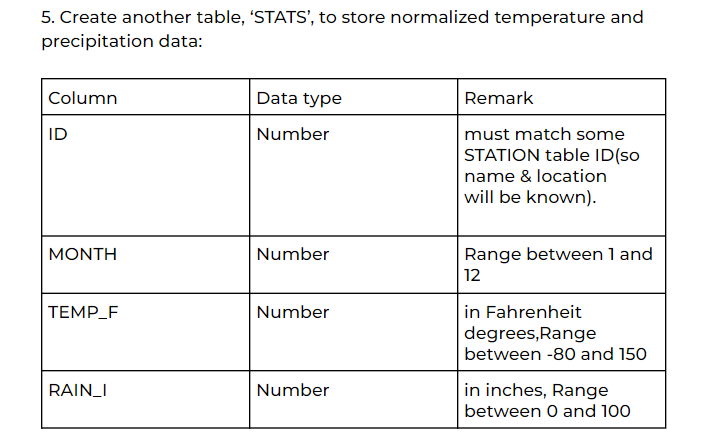
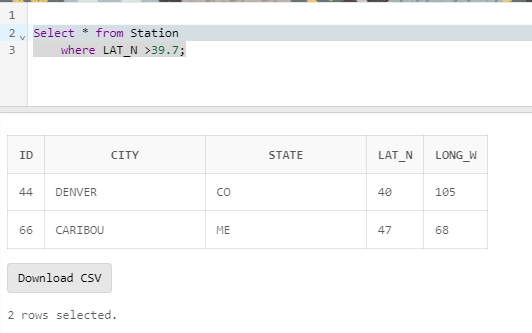


**Q.4. Execute a query to select Northern stations (Northern latitude >39.7).**

*Select \* from Station*

*where LAT\_N >39.7;*

Insert Image –



*Create table STATS*

*(*

*ID number references STATION(ID),*

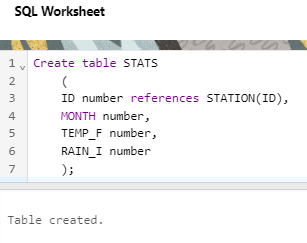
*MONTH number,*

*TEMP\_F number,*

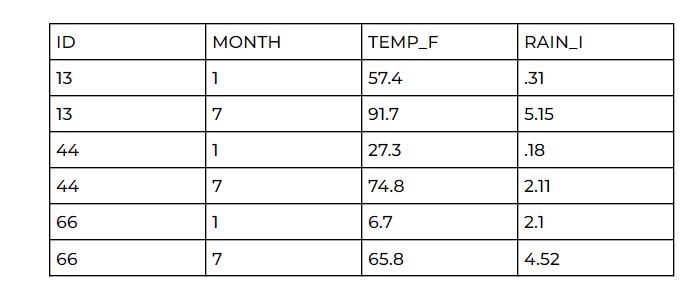
*RAIN\_I number*

*);*

Insert Image –



**6.Populate the table STATS with some statistics for January and July:**



*insert into STATS values (13,1,57.4,0.31);*

*insert into STATS values (13,7,91.7,5.15);*

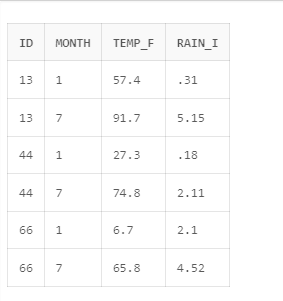
*insert into STATS values (44,1,27.3,0.18);*

*insert into STATS values (44,7,74.8,2.11);*

*insert into STATS values (66,1,6.7,2.1);*

*insert into STATS values (66,7,65.8,4.52);*

*select \* from stats;*





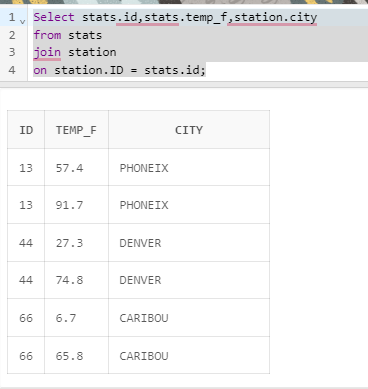
*Select stats.id, stats.temp\_f, station.city*

*from stats*

*join station*

*on station.ID = stats.id;*

Insert Image –



**8**.**Execute a query to look at the table STATS, ordered by month and greatest rainfall, with columns rearranged. It should also show the corresponding cities.**

*Select s.month, s.RAIN\_I, st.city*

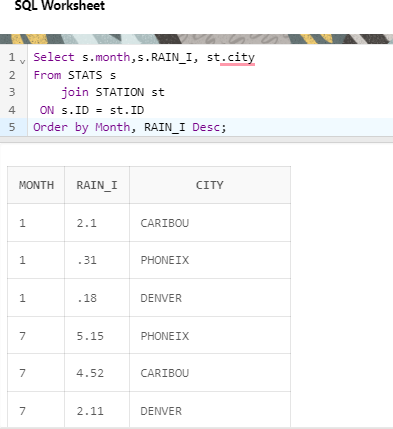
*From STATS s*

*join STATION st*

*ON s.ID = st.ID*

*Order by Month, RAIN\_I Desc;*

Insert Image –



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

*Select s.month, s.RAIN\_I, st.city*

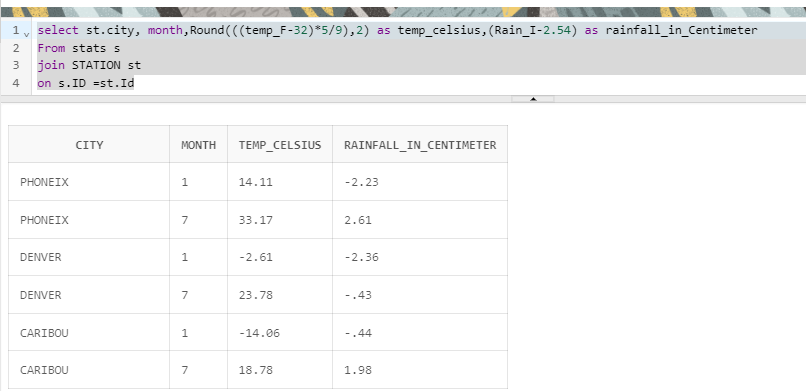
*From STATS s*

*join STATION st*

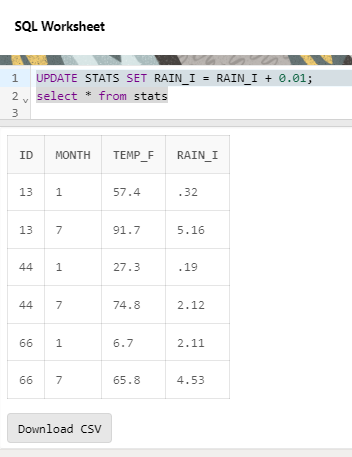
*ON s.ID = st.ID*

*Order by Month, RAIN\_I Desc;*

|  |
| --- |
| **10.Execute a query to show MAX and MIN temperatures as well as the average rainfall for each city**  *select st.city, min(s.TEMP\_F)as MIN\_Temperature,max(s.TEMP\_F) as MAX\_Temperature, avg(s.RAIN\_I) as AVG\_Rain*  *From stats s*  *join STATION st*  *on s.ID =st.Id*  *Group by st.city;* |
|  |
| **11. Execute a query to display each city’smonthly temperature in Celcius and rainfall in Centimeters**  *select st.city, month,Round(((temp\_F-32)\*5/9),2) as temp\_celsius,(Rain\_I-2.54) as rainfall\_in\_Centimeter*  *From stats s*  *join STATION st*  *on s.ID =st.Id* |
|  |
| |  | | --- | |  | |
|  |

**12.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;* |
| *select \* from stats* |

****

**13.UpdateDenver'sJulytemperaturereadingas74.9**

*Update Stats set TEMP\_F= 74.9*

*Where Month = 7 and Id= 44*

*select \* from stats*

