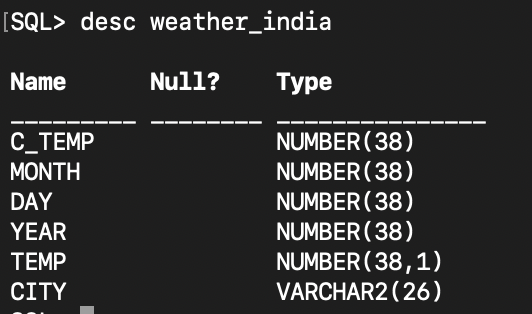
**MODERN DATABASE SYSTEM LAB 3**

**INDIAN WEATHER ANALYTICS USING HISTORICAL DATA PART-1**

**NAME: PAVITHIRAN.V ROLL.NO: 235229122**

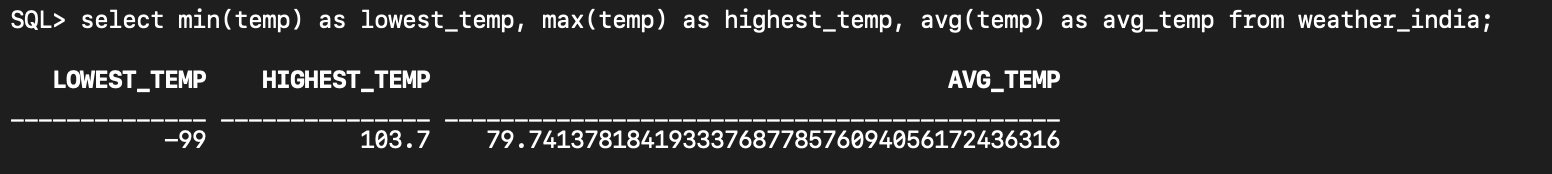


**QUESTION 1:**

SELECT MIN(TEMP) AS LOWEST\_TEMP,

MAX(TEMP) AS HIGHEST\_TEMP,

AVG(TEMP) AS AVG\_TEMP FROM WEATHER\_INDIA;



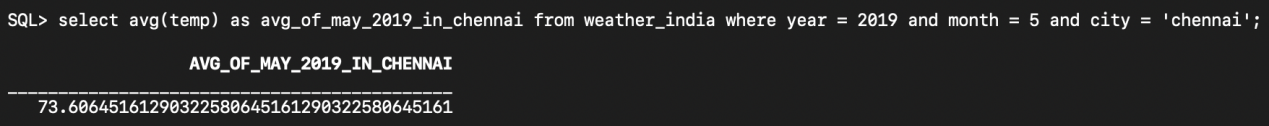
**QUESTION 2:**

SELECT AVG(TEMP) AS AVG\_OF\_MAY\_2019\_IN\_CHENNAI

FROM WEATHER\_INDIA

WHERE YEAR = 2019 AND

MONTH = 5 AND CITY = 'CHENNAI';

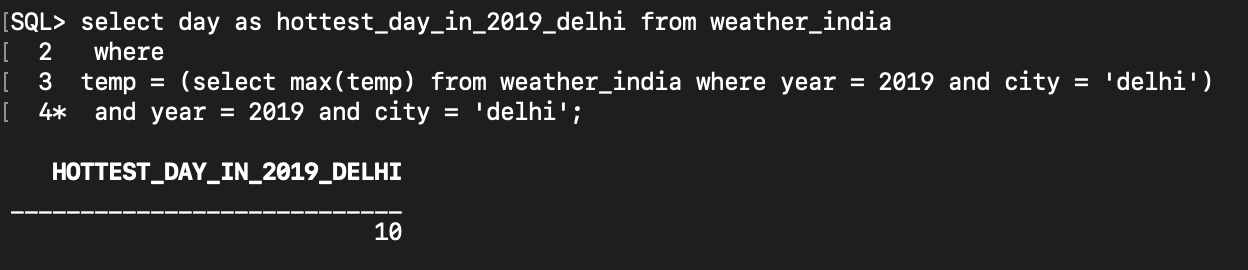


**QUESTION 3:**

SELECT DAY AS HOTTEST\_DAY\_IN\_2019\_DELHI

FROM WEATHER\_INDIA

WHERE TEMP = (SELECT MAX(TEMP) FROM WEATHER\_INDIA WHERE YEAR = 2019 AND CITY = 'DELHI') AND YEAR = 2019 AND CITY = 'DELHI';



**QUESTION 4:**

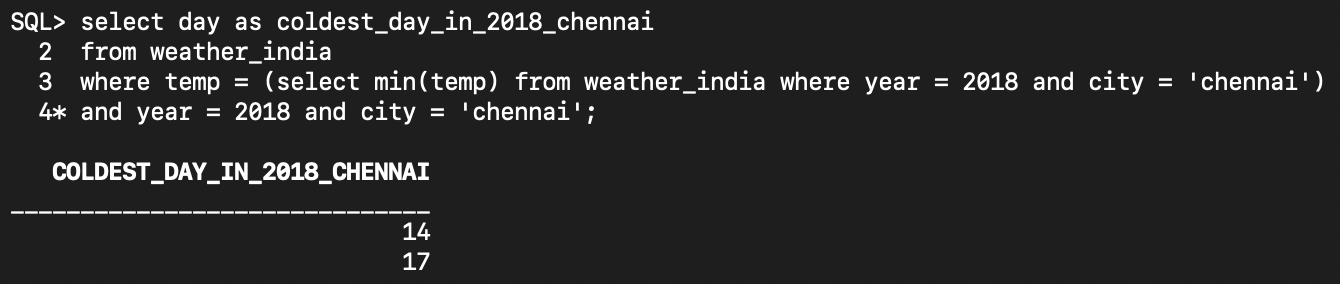
SELECT DAY AS COLDEST\_DAY\_IN\_2018\_CHENNAI

FROM WEATHER\_INDIA

WHERE TEMP = (SELECT MIN(TEMP) FROM WEATHER\_INDIA

WHERE YEAR = 2018 AND CITY = 'CHENNAI')

AND YEAR = 2018 AND CITY = 'CHENNAI';



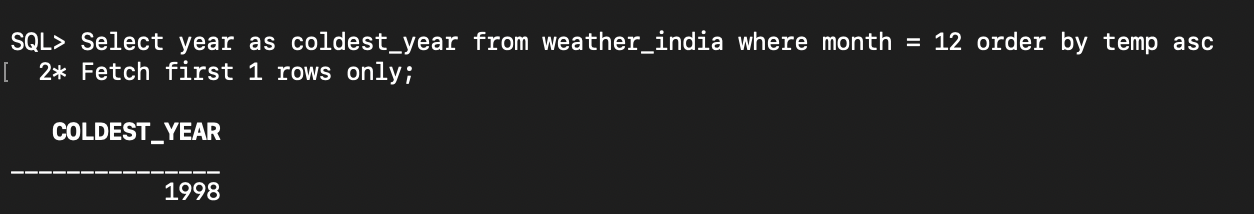
**QUESTION 5:**

SELECT YEAR AS COLDEST\_YEAR

FROM WEATHER\_INDIA

WHERE MONTH = 12 ORDER BY TEMP ASC

FETCH FIRST 1 ROWS ONLY;



**QUESTION 6:**

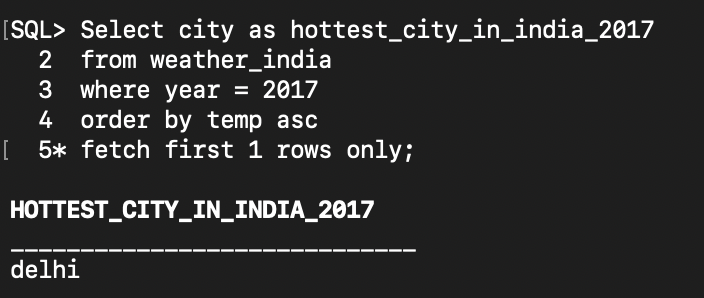
SELECT CITY AS HOTTEST\_CITY\_IN\_INDIA\_2017

FROM WEATHER\_INDIA

WHERE YEAR = 2017

ORDER BY TEMP ASC

FETCH FIRST 1 ROWS ONLY;



**QUESTION 7:**

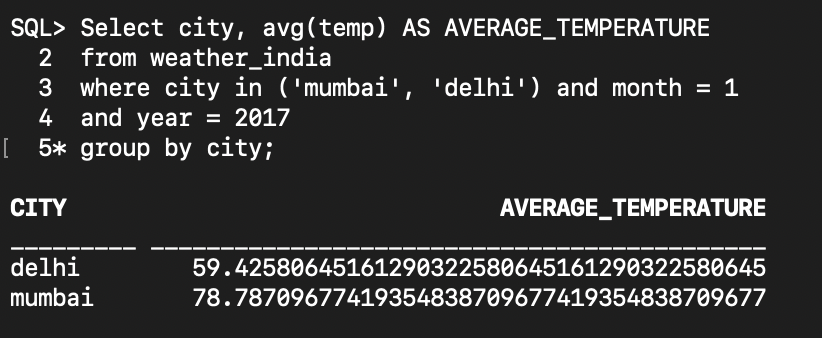
SELECT CITY, AVG(TEMP) AS AVERAGE\_TEMPERATURE

FROM WEATHER\_INDIA

WHERE CITY IN ('MUMBAI', 'DELHI') AND MONTH = 1

AND YEAR = 2017

GROUP BYCITY;



**QUESTION 8:**

SELECT DAY, MONTH, YEAR, CITY

FROM WEATHER\_INDIA

WHERE TEMP = (SELECT MIN(TEMP) FROM WEATHER\_INDIA)

FETCH FIRST 1 ROWS ONLY;

