225229108 LAB-3

DINESH KUMAR K

WEATHER INDIA

1. What is the average weather in May of all cities?. Display city and average temperature in descending order.

SQL> select city, avg(temp) from india where month=5 group by city order by avg(temp) desc;

CITY	AVG(TEMP)	
delhi	89.6534194	
chennai	88.636	
kolkata	85.888	
mumbai	85.2651613	

2. Show the average historic temperature (from year 1995 to Feb 2020, entire table) in each city in ascending order of city name.

SQL> select city,avg(temp) from india group by city order by city asc;

CITY	AVG(TEMP)	
chennai	82.8219791	
delhi	75.7865012	
kolkata	78.8528086	
mumbai	81.5042238	

3. Show lowest, highest and average temperature in Kolkata during 2010 to 2020.

SQL> select min(temp),max(temp),avg(temp) from india where city='kolkata' and year>=2010;

MIN(TEMP)	MAX(TEMP)	AVG(TEMP)
-99	96.3	79.0960345

4. Find cities and average temperature which recorded atleast 40 degree Celsius in April 2019

SQL> select city,avg(temp) from india where temp>=40 and year=2019 and month=4 group by city;

CITY	AVG(TEMP)
chennai	89.1724138
mumbai	85.6896552
delhi	86.9307692
kolkata	85.1448276

5. Show monthwise average temperature in Chennai in 2019. Print month name and average temperature values.

SQL> select month,avg(temp) from india where city='chennai' and year=2019 group by month order by avg(temp);

MONTH	AVG	(TEMP)
141014111	700	(

5 73.6064516

1 77.3451613

12 79.6225806

2 82.2678571

11 82.52

4 82.9

10 83.2806452

9 85.2066667

3 85.9064516

8 88.3709677

7 88.8967742

MONTH AVG(TEMP)

6 92.5466667

6. Show year wise average temperature of Mumbai. Print year and corresponding average temperature values, in descending order.

SQL> select year,avg(temp) from india where city='mumbai' group by year order by year desc;

YEAR AVG(TEMP)
2020 78.962963
2019 79.8649315
2018 82.2526027
2017 83.4043836
2016 81.8393443
2015 82.6166667
2014 82.2515068
2013 81.7391781
2012 81.6964481
2011 82.2846575
2010 82.6871233
YEAR AVG(TEMP)
YEAR AVG(TEMP)
2009 82.5021918
2009 82.5021918 2008 80.492623
2009 82.5021918 2008 80.492623 2007 81.4682192
2009 82.5021918 2008 80.492623 2007 81.4682192 2006 81.3005479
2009 82.5021918 2008 80.492623 2007 81.4682192 2006 81.3005479 2005 81.2624658
2009 82.5021918 2008 80.492623 2007 81.4682192 2006 81.3005479 2005 81.2624658 2004 80.6027322
2009 82.5021918 2008 80.492623 2007 81.4682192 2006 81.3005479 2005 81.2624658 2004 80.6027322 2003 81.4369863
2009 82.5021918 2008 80.492623 2007 81.4682192 2006 81.3005479 2005 81.2624658 2004 80.6027322 2003 81.4369863 2002 80.1052055

YEAR AVG(TEMP)

1998 80.0279452

1997 81.7857534

1996 81.745082

1995 80.5621918

7. Show city wise yearly average temperature values for the years 2017, 2018 and 2019. City names as rows and years as columns. Each cell will denote its average temperature value.

SQL> select city, year, avg(temp) from india where year in(2017,2018,2019) group by year, city order by city, year;

CITY	YEAR AVG(TEMP)
chennai	2017 84.7586301
chennai	2018 83.8887671
chennai	2019 83.5249315
delhi	2017 77.9082192
delhi	2018 75.099726
delhi	2019 73.4953425
kolkata	2017 79.8583562
kolkata	2018 78.1339726
kolkata	2019 76.2112329
mumbai	2017 83.4043836
mumbai	2018 82.2526027
CITY	YEAR AVG(TEMP)
mumbai	2019 79.8649315