Lab3: India Weather Analytics using Historical Data Part-1

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1). What is the lowest, higest and average temperature of your dataset (from year 1995 to feb 2020)?
SQL> select max(temp),min(temp),avg(temp) from weather;
MAX(TEMP) MIN(TEMP) AVG(TEMP)
103.7 -99 79.7413782
2). What is the average temperature in May 2019 in chennai?
SQL> select avg(temp) from weather where city='chennai' and month=5 and year=2019;
AVG(TEMP)
73.6064516
3). Which is the hottest day in 2019 in delhi?
SQL> select day,month,year from weather where temp=(select max(temp) from weather where city='delhi' and year=2019);
DAY MONTH YEAR
10 6 2019
4). Which is the coldest day in 2018 in chennai?
SQL> select day,month,year from weather where city='chennai' and year=2018 and temp=(select

min(temp) from weather);

DAY	MONT	H YEAR
14	11	2018
17	11	2018

5). Which is the coldest year in december?. Print city and temperature.

SQL> select city,temp, year from weather where month=12 and temp=(select min(temp) from weather);

CITY	TEMP	YEAR
chennai	-99	1998
chennai	-99	2015
chennai	-99	2015
mumbai	-99	1998
mumbai	-99	2007
CITY	TEMP	YEAR
mumbai	-99	2015
mumbai	-99	2015
delhi	-99	1998
delhi	-99	1998

delhi	-99	1998
delhi	-99	1998
delhi	-99	2007
delhi	-99	2015
delhi	-99	2015
kolkata	-99	1998
kolkata	-99	1998
CITY	TEMP	YEAR
kolkata	-99	1998
kolkata	-99	1998
kolkata	-99	2015
kolkata	-99	2015

6). Which is the hottest city in india in 2017?

SQL> select city,temp from weather where temp=(select max(temp) from weather where year=2017);

CITY	TEMP
delhi	103.6

7).Ls winter in delhi in january 2017 colder than Mumbai?. Print average temperature of delhi and Mumbai too.

SQL> select avg(temp) from weather where year=2017 and city='delhi'and month=1;

AVG(TEMP)

SQL> select avg(temp) from weather where year=2017 and city='mumbai'and month =1;

AVG(TEMP)

78.7870968

8). Display the day, month, year and city of the coldest day.

SQL> select day,month,year from weather where temp=(select min(temp) from weather);

DAY	MON ⁻	TH YEAR
 29	3	1995
22	6	1995
26	10	1996
18	6	2002
19	6	2002
20	6	2002
21	6	2002
26	10	2002
13	1	2003
16	8	1998
24	12	1998

DAY	MON	TH	YEAR
25	12	199	8
30	12	199	8
31	12	199	8

- 10 1 1999
- 28 8 2007
- 24 9 2008
- 9 4 2009
- 30 12 2015
- 31 12 2015
- 10 3 2016
- 11 11 2016

- 6 2 2014
 - 14 11 2018
 - 17 11 2018
 - 24 4 2019
 - 16 5 2019
 - 17 5 2019
 - 18 5 2019
 - 29 3 1995
 - 24 12 1998
 - 25 12 1998
 - 30 12 1998

DAY MONTH YEAR

- 31 12 1998
- 10 1 1999
- 18 6 2002
- 19 6 2002
- 20 6 2002
- 21 6 2002

- 9 4 2009
- 28 8 2007
- 7 12 2007
- 22 1 2008
- 18 8 2008

24 9 2008

- 30 12 2015
- 31 12 2015
- 10 3 2016
- 11 11 2016
- 6 2 2014
- 14 11 2018
- 15 11 2018
- 17 11 2018
- 23 1 2019
- 24 4 2019

DAY MONTH YEAR

- 16 5 2019
- 17 5 2019
- 18 5 2019
- 19 5 2019
- 29 3 1995
- 28 4 2001
- 16 8 1998
- 1 10 1998
- 24 12 1998

- 25 12 1998
- 30 12 1998

- 31 12 1998
- 10 1 1999
- 29 4 1999
- 30 4 1999
- 18 6 2002
- 19 6 2002
- 20 6 2002
- 21 6 2002
- 26 10 2002
- 17 4 2010
- 18 4 2010

DAY MONTH YEAR

- 19 4 2010
- 21 4 2010
- 9 6 2011
- 10 6 2011
- 11 6 2011
- 12 6 2011
- 13 6 2011
- 6 3 2007
- 7 3 2007
- 20 5 2007
- 28 8 2007

ΠΔΥ	MON	NTH YEAR
22	10	2007
7	12	2007
24	9	2008
2	3	2009
9	4	2009
6	2	2014
30	12	2015
31	12	2015
10	3	2016
15	5	2013
29	3	1995
DAY	MON	NTH YEAR
22	6	1995
22 23	6 6	1995 1995
22	6 6	1995
22 23	6 6 3	1995 1995
22 23 8	6 6 3	1995 1995 1996
22 23 8 14	6 6 3 3	1995 1995 1996 1996
22 23 8 14 15	6 6 3 3 3	1995 1995 1996 1996 1996
22 23 8 14 15 20	6 6 3 3 3	1995 1995 1996 1996 1996
22 23 8 14 15 20 22	6 6 3 3 3 3	1995 1995 1996 1996 1996 1996
22 23 8 14 15 20 22 16	6 6 3 3 3 3 4	1995 1995 1996 1996 1996 1996 1996 2016
22 23 8 14 15 20 22 16 5	6 6 3 3 3 3 4 5	1995 1995 1996 1996 1996 1996 1996 2016
22 23 8 14 15 20 22 16 5	6 6 3 3 3 3 4 5	1995 1995 1996 1996 1996 1996 1996 2016 2016

19 4 2017

- 20 4 2017
- 4 1 2018
- 17 9 2018
- 24 9 2018
- 14 11 2018
- 15 11 2018
- 17 11 2018
- 23 1 2019
- 24 4 2019
- 25 4 2019

- 27 4 2019
- 30 4 2019
- 16 5 2019
- 17 5 2019
- 18 5 2019
- 19 5 2019
- 6 3 2007
- 7 3 2007
- 20 5 2007
- 28 8 2007
- 24 9 2008

DAY MONTH YEAR

- - 9 4 2009
 - 14 11 2018
 - 15 11 2018
 - 17 11 2018

- 23 1 2019
- 24 4 2019
- 16 5 2019
- 17 5 2019
- 18 5 2019
- 19 5 2019
- 24 12 1998

- 25 12 1998
- 30 12 1998
- 31 12 1998
- 10 1 1999
- 22 3 2000
- 23 3 2000
- 24 3 2000
- 18 6 2002
- 19 6 2002
- 20 6 2002
- 21 6 2002

DAY MONTH YEAR

26 10 2002

- 6 2 2014
- 30 12 2015
- 31 12 2015
- 10 3 2016
- 11 11 2016