

LAB6: RETAIL SALES ANALYTICS PART-| | |

Question: Develop aggregate queries in SQL on Retail dataset as follows.

- Write 6 SQL queries with aggregation.
- At least 1 aggregate function per query.
- At least 2/5 aggregate functions among the 6 queries.
- At least 4 GROUP BY clauses among the 6 queries.
- At least 3 HAVING clauses among the 6 queries.

(1).SQL> select max(store_id) from store;

MAX(STORE_ID)

45

(2).SQL> select feature_id,min(fuel_price) from feature_data where feature_id<6 group by feature_id;

FEATURE_ID MIN(FUEL_PRICE)

1 2.572

2 2.548

4 2.561

5 2.625

3 2.514

(3).SQL> select store_id,min(fuel_price) from feature_data where store_id<30 group by store_id having min(fuel_price)>2.75;

STORE_ID MIN(FUEL_PRICE)

28 2.825

24 2.837

27	2.837
12	2.825
10	2.825
15	2.837
19	2.837

7 rows selected.

(4).SQL> select store_id,max(temperature) from feature_data where store_id>30 group by store_id having max(temperature)>70;

STORE_ID MAX(TEMPERATURE)

34	87.73
42	95.36
43	91.36
44	85.58
31	94.22
32	81.95
37	87.64
35	83.36
38	101.95
33	100.14
41	76.54

STORE_ID MAX(TEMPERATURE)

40	76.67
45	82.99
36	87.64
39	88.65

15 rows selected.

**(5).SQL> select feature_id,min(temperature) from feature_data where feature_id>20
group by feature_id having min(temperature)<20;**

FEATURE_ID MIN(TEMPERATURE)

1148	17.46
1253	11.94
2962	16.57
4420	18.92
4552	18.14
5695	15.47
7155	18.49
7198	18.75
7435	13.54
7981	11.44
1185	19.53

FEATURE_ID MIN(TEMPERATURE)

1243	12.57
1250	11.26
3146	14.84
2600	19.61
2778	19.66
2883	8.55
2961	6.23
4056	10.91
4600	16.7
4653	15.22

4710	18.57
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FEATURE_ID MIN(TEMPERATURE)

7433	19.21
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1135	17.95
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1141	10.09
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1190	15.2
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1244	2.32
------	------

2233	16.94
------	-------

2598	19.53
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2779	12.39
------	-------

2780	17.46
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3011	18.76
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4602	5.54
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FEATURE_ID MIN(TEMPERATURE)

7152	16.87
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7154	16.5
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1145	-2.06
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1189	11.17
------	-------

1191	12.19
------	-------

2827	14.44
------	-------

2916	15.64
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3066	16.27
------	-------

4005	15.25
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4054	18.2
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4418	18.3
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FEATURE_ID MIN(TEMPERATURE)

7201	14.02
7256	15.44
7875	16.94
1140	13.76
1192	15.56
1245	-6.08
1251	13.73
1252	13.39
2339	11.44
2549	19.83
2704	18.82

FEATURE_ID MIN(TEMPERATURE)

2784	15.02
2965	11.29
2966	14.19
3067	.25
4107	15.33
4238	17.91
4370	19.64
4524	18.89
4601	12.98
4703	11.17
4708	12.14

FEATURE_ID MIN(TEMPERATURE)

4709	19.68
5696	18.51
7146	19.29
7148	18.55
7979	13.43
1093	10.53
1146	10.24
1193	18.67
1194	7.46
1247	-7.29
2783	13.64

FEATURE_ID MIN(TEMPERATURE)

3009	17.56
3065	2.45
3068	11.15
4057	14.5
4157	12.27
4162	14.94
4551	9.55
4595	16.6
4606	16.3
4650	18.8
5797	18.82

FEATURE_ID MIN(TEMPERATURE)

7151	13.29
7254	9.8
7255	19.64
7982	14.75
1142	11.32
1144	10.11
1147	17.3
1248	4
2734	18.12
2832	19.55
2885	8.82

FEATURE_ID MIN(TEMPERATURE)

2914	18.36
2955	19.03
4052	19.05
4055	15.58
4160	12.05
4598	18.73
4607	14.31
4706	6.27
7150	9.51
7251	10.13
1198	18.79

FEATURE_ID MIN(TEMPERATURE)

1246	-6.61
2337	13.43
2340	14.75
2731	19.79
2882	17.93
2884	17.64
2891	18.86
4006	18.75
4060	17
4603	11.17
4604	15.12

FEATURE_ID MIN(TEMPERATURE)

4605	19.63
4714	18.19
5739	17.94
7334	16.81
7377	17.05
7099	14.48
7149	14.64
7333	14.56

129 rows selected.

(6).SQL> select feature_id,max(fuel_price) from feature_data where feature_id<45 group by feature_id having max(fuel_price)<3.98;

FEATURE_ID MAX(FUEL_PRICE)

1	2.572
22	2.669
25	2.608
30	2.619
34	2.624
42	2.771
43	2.735
6	2.667
11	2.808
13	2.78
28	2.692

FEATURE_ID MAX(FUEL_PRICE)

29	2.664
44	2.708
2	2.548
14	2.835
20	2.637
21	2.653
26	2.64
31	2.577
4	2.561
5	2.625

24	2.623
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FEATURE_ID MAX(FUEL_PRICE)

32	2.565
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8	2.732
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17	2.759
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23	2.642
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35	2.603
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37	2.72
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38	2.725
----	-------

33	2.582
----	-------

40	2.689
----	-------

41	2.728
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3	2.514
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FEATURE_ID MAX(FUEL_PRICE)

7	2.72
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18	2.705
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27	2.627
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36	2.633
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9	2.719
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10	2.77
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12	2.795
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15	2.854
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16	2.826
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19	2.668
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39	2.716
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44 rows selected.