

MODERN DATABASE SYSTEMS LAB 7

RETAIL SALES ANALYTICS PART3

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```
SELECT st.TYPE, AVG(s.WEEKLY_SALES) AS AVG_WEEKLY_SALES
FROM sales_data s
JOIN stores_data st ON s.STORE_ID = st.STORE_ID
GROUP BY st.TYPE;
```

TYPE	AVG_WEEKLY_SALES
B	12237.0759767576990122022080185938407902
C	9519.532538441674296311946850717186656337
A	20099.5680429092529167710856792804833904

```
SELECT st.TYPE, f.DATE1, MAX(f.TEMPERATURE) AS MAX_TEMPERATURE
FROM features_data f
JOIN stores_data st ON f.STORE_ID = st.STORE_ID
WHERE f.DATE1 > '05-02-2010'
GROUP BY st.TYPE, f.DATE1
Fetch first 5 rows only;
```

```
SQL> SELECT st.TYPE, f.DATE1, MAX(f.TEMPERATURE) AS MAX_TEMPERATURE
2 FROM features_data f
3 JOIN stores_data st ON f.STORE_ID = st.STORE_ID
4 WHERE f.DATE1 > '05-02-2010'
5 GROUP BY st.TYPE, f.DATE1
6* Fetch first 5 rows only;
```

TYPE	DATE1	MAX_TEMPERATURE
A	02-04-10	66.79
A	23-04-10	71.59
A	28-05-10	81.13
A	06-08-10	92.95
A	27-08-10	94

```
SELECT st.TYPE, SUM(s.WEEKLY_SALES) AS TOTAL_WEEKLY_SALES
FROM sales_data s
JOIN stores_data st ON s.STORE_ID = st.STORE_ID
```

GROUP BY st.TYPE
HAVING MIN(st.SIZE1) >= 3000;

```
SQL> SELECT st.TYPE, SUM(s.WEEKLY_SALES) AS TOTAL_WEEKLY_SALES
2 FROM sales_data s
3 JOIN stores_data st ON s.STORE_ID = st.STORE_ID
4 GROUP BY st.TYPE
5* HAVING MIN(st.SIZE1) >= 3000;
```

TYPE	TOTAL_WEEKLY_SALES
B	2000700736.82

SELECT s.DEPT, COUNT(*) AS HOLIDAY_COUNT
FROM sales_data s
JOIN features_data f ON s.STORE_ID = f.STORE_ID
WHERE f.CPI > 220
GROUP BY s.DEPT
HAVING COUNT(*) > 2
Fetch first 5 rows only;

```
SQL> SELECT s.DEPT, COUNT(*) AS HOLIDAY_COUNT
2 FROM sales_data s
3 JOIN features_data f ON s.STORE_ID = f.STORE_ID
4 WHERE f.CPI > 220
5 GROUP BY s.DEPT
6 HAVING COUNT(*) > 2
[ 7* Fetch first 5 rows only;
```

DEPT	HOLIDAY_COUNT
6	129606
14	138138
23	121710
27	118818
51	20200

SELECT st.TYPE, AVG(f.MARKDOWN1) AS AVG_MARKDOWN1, MAX(f.MARKDOWN2) AS
MAX_MARKDOWN2

FROM features_data f
JOIN stores_data st ON f.STORE_ID = st.STORE_ID
GROUP BY st.TYPE;

```
SQL> SELECT st.TYPE, AVG(f.MARKDOWN1) AS AVG_MARKDOWN1, MAX(f.MARKDOWN2) AS MAX_MARKDOWN2  
2 FROM features_data f  
3 JOIN stores_data st ON f.STORE_ID = st.STORE_ID  
4* GROUP BY st.TYPE;
```

TYPE	AVG_MARKDOWN1	MAX_MARKDOWN2
B	7033.243294117647058823529411764705882353	104519.54
C	451.720703422053231939163498098859315589	3350.2
A	8783.429003036437246963562753036437246964	97740.99

SELECT st.TYPE, AVG(f.UNEMPLOYMENT) AS AVG_UNEMPLOYMENT
FROM features_data f
JOIN stores_data st ON f.STORE_ID = st.STORE_ID
GROUP BY st.TYPE
HAVING AVG(f.UNEMPLOYMENT) > 7.5;

```
SQL> SELECT st.TYPE, AVG(f.UNEMPLOYMENT) AS AVG_UNEMPLOYMENT  
2 FROM features_data f  
3 JOIN stores_data st ON f.STORE_ID = st.STORE_ID  
4 GROUP BY st.TYPE  
[ 5* HAVING AVG(f.UNEMPLOYMENT) > 7.5;
```

TYPE	AVG_UNEMPLOYMENT
B	7.77313539853811347024016707274625826662
C	8.67414497041420118343195266272189349112
A	7.63721705217859064012910166756320602474
