Week 2 Assessment

Question 1: Which of the following keywords are required in any query to retrieve data from a relational database? Select all that apply.

A. SELECT B. FROM C. WHERE D. GROUP (BY) E. HAVING F. ORDER (BY)

Answer: A, B

Correct Feedback: You always have to specify what data you want and the location from which those data come.

Question 2: Which of the following database systems recognize the keyword “LIMIT” to limit the number of rows displayed from a query output?

A. Teradata B. MySQL C. Both D. Neither E.

Answer: B

Correct Feedback: Teradata recognizes the keyword TOP instead of LIMIT (although LIMIT and TOP do not perform identical functions; LIMIT can be used in combination with DISTINCT, while TOP cannot).

Question 3: Which keywords could you use to determine the names of the columns contained in a table?

A. HELP in MySQL and COLUMNS in Teradata

B. COLUMNS in MySQL and SHOW in Teradata

C. SHOW in MySQL and DESCRIBE in Teradata

D. DESCRIBE in MySQL and HELP in Teradata

Answer: D

Correct Feedback: You can also use the keyword SHOW in MySQL. The keyword SHOW in Teradata will give you the code used to make the table, which will also indicate which columns are configured as primary or foreign keys, and which columns allow NULL values.

Question 4: In how many columns of the STRINFO table of the Dillard’s database are NULL values \*permitted\*?

A. 0 B. 1 C. 2 D. 3

Answer: D

Correct Feedback: A HELP TABLE query would have shown you that the city, state, and zip columns all accept null values.

SQL: HELP TABLE strinfo;

Question 5: In how many columns of the STRINFO table of the Dillard’s database are NULL values \*present\*?

A. 0 B. 1 C. 2 D. 3

Answer: A

Correct Feedback: Running queries with the “IS NULL” condition should have reported that there were no values in any column in the table with null values.

SQL: SELECT \* FROM strinfo WHERE store/city/state/zip IS NULL;

Question 6: What was the highest original price in the Dillard’s database of the item with SKU 3631365?

A. $12.00 B. $15.50 C. $17.50 D. $20.00

Answer: C

SQL: SELECT TOP 1 orgprice, sku

FROM trnsact

WHERE sku = 3631365

ORDER BY orgprice DESC;

Question 7: What is the color of the Liz Claiborn brand item with the highest SKU # in the Dillard’s database (the Liz Claiborn brand is abbreviated “LIZ CLAI” in the Dillard’s database)?

A. TEAK CBO B. CLAY C. ORANGE D. HTR GREY

Answer: A

SQL: SELECT TOP 5 sku, color, brand

FROM skuinfo

WHERE brand LIKE '%LIZ CLAI%'

ORDER BY sku DESC;

Question 8: What aspect of the following query will make the query crash?

SELECT SKU, orgprice, sprice, amt,

FROM TRNSACT WHERE AMT>50

A. There is no TOP statement

B. There is a comma after "amt" in the first line of the query

C. "orgprice", "sprice", and "amt" are in lowercase letters in the first line of the query

D. There is no semi-colon at the end of the query

Answer: B

Question 9: What is the sku number of the item in the Dillard’s database that had the highest original sales price?

A. 7298484 B. 4628597 C. 4420360 D. 6200173

Answer: D

SQL：SELECT TOP 5 sku, orgprice

FROM trnsact

ORDER BY orgprice DESC;

Question 10: According to the strinfo table, in how many states within the United States are Dillard’s stores located? (HINT: the bottom of the SQL scratchpad reports the number of rows in your output)

A. 20 B. 31 C. 33 D. 48

Answer: B

SQL：SELECT DISTINCT state

FROM strinfo;

Question 11: How many Dillard’s departments start with the letter “e”?

A. 1 B. 3 C. 5 D. 7

Answer: C

SQL：SELECT DISTINCT deptdesc

FROM deptinfo

WHERE deptdesc LIKE 'e%';

Question 12: What was the date of the earliest sale in the database where the sale price of the item did not equal the original price of the item, and what was the largest margin (original price minus sale price) of an item sold on that earliest date?

A. 04/08/01, $510.00

B. 04/10/10, $475.94

C. 04/12/24, $458.70

D. 05/01/28, $412.50

Answer: A

SQL：SELECT saledate, sprice, orgprice, (sprice - orgprice) AS margin

FROM trnsact

WHERE sprice <> orgprice

ORDER BY saledate ASC, margin DESC;

Question 13: What register number made the sale with the highest original price and highest sale price between the dates of August 1, 2004 and August 10, 2004? Make sure to sort by original price first and sale price second.

A. 90 B. 390 C. 431 D. 621

Answer: D

SQL：SELECT TOP 5 orgprice, sprice, register, saledate

FROM trnsact

WHERE saledate BETWEEN '2004-08-01' AND '2004-08-10'

ORDER BY orgprice DESC, sprice DESC

Question 14: Which of the following brand names with the word/letters “liz” in them exist in the Dillard’s database? Select all that apply.

A. CIVILIZE B. LIZ MOOR C. BELIZA D. REVITALIZE

Answers: A, C (Civilize and Beliza)

SQL：SELECT DISTINCT brand

FROM skuinfo

WHERE brand LIKE '%liz%';

Question 15: What is the lowest store number of all the stores in the STORE\_MSA table that are in the city of “little rock”,”memphis”, or “tulsa”?

A. 204 B. 504 C. 1204 D. 9906

Answer: B

SQL：SELECT store, city

FROM store\_msa

WHERE city IN('little rock', 'memphis', 'tulsa')

ORDER BY store;