

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.

Incorrect Feedback: Try again! Please review the material in Introduction to Query Syntax video.

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).

Incorrect Feedback: Make sure to review your work from both the MySQL and the Teradata exercises.

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.

Incorrect Feedback: Make sure to review your work from both the MySQL and the Teradata exercises.

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.

Incorrect Feedback: Review the commands that allow you to retrieve information about a table and how it is configured.

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.

Incorrect Feedback: Review the SQL syntax that allows you to query whether any null values are present in a column.

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

Correct Feedback: Here's the query you might have used to arrive at your answer:

```
SELECT orgprice, SKU
FROM trnsact
WHERE SKU='3631365'
ORDER BY orgprice DESC
```

Incorrect Feedback: Make sure you have entered the correct SKU number.

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

Correct Feedback: Here's the query you might have run to arrive at your answer:

```
SELECT TOP 5 sku, style, color, size, vendor, brand
FROM skuinfo
WHERE brand like '%Liz CLAI%'
ORDER BY sku DESC
```

Incorrect Feedback: Make sure you are sorting your results in the correct direction.

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

Correct Feedback: No feedback provided

Incorrect Feedback: Please review the material in the Introduction to Query Syntax video and course exercises...or try different versions of the query yourself!

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

Correct Feedback: Here's the query you might have run:

```
SELECT TOP 5 sku, orgprice
FROM trnsact
ORDER BY orgprice desc
```

Incorrect Feedback: Make sure you are sorting your results in the correct direction.

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

Correct Feedback: Here's the query you might have run to arrive at your answer:

```
SELECT DISTINCT state
FROM strinfo;
```

Incorrect Feedback: Don't forget to include a keyword that will give you a list of unique state names.

Question 11: How many Dillard's departments start with the letter "e"?

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

Answer: C

Correct Feedback: Here's the query you might have run (the DISTINCT keyword and ORDER BY clause would be optional):

```
SELECT DISTINCT deptdesc
FROM deptinfo
WHERE deptdesc like 'e%'
ORDER BY deptdesc
```

Incorrect Feedback: Review the exercises about how to use specify a pattern the textual data you query should match. Don't forget to use single quotation marks instead of double quotation marks.

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

Correct Feedback: Here's the query you might have run (you could have used a different number for your TOP limitation):

```
SELECT TOP 100 orgprice, sprice, orgprice-sprice AS margin, saledate
FROM trnsact
WHERE orgprice<>sprice
ORDER BY saledate ASC, margin DESC
```

Incorrect Feedback: Review the exercises about how to sort by multiple fields, and pay attention to the order in which you sort your data.

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

Correct Feedback: Here's the query you might have run (you could have used a different number for your TOP limitation):

```
SELECT TOP 100 register, saledate, orgprice, sprice
FROM trnsact
WHERE SALEDATE BETWEEN '2004-08-01' AND '2004-08-10'
ORDER BY orgprice DESC, sprice DESC
```

Incorrect Feedback: Make sure your dates are entered correctly and in the correct format, and check that you are sorting your output in the correct direction.

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)

Correct Feedback: Here's the query you might have run:

```
SELECT DISTINCT brand
FROM skuinfo
WHERE brand like '%Liz%'
ORDER BY sku DESC
```

Incorrect Feedback: It might help to make sure you extract only unique brand names.

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

Correct Feedback: Here’s the query you might have run:

```
SELECT store, city
FROM store_msa
WHERE city IN('little rock','memphis','tulsa')
ORDER BY store
```

Incorrect Feedback: Review which operator allows you to specify multiple values in a WHERE clause.