Chapter 2 Solutions

Review Questions

1. *What is a data dictionary?* A collection of objects the DBMS manages to maintain information about the database, such as table names, column names, and column data types. This information is often referred as metadata.

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- 2. What are the two required clauses for a SELECT statement? SELECT and FROM
- 3. What is the purpose of the SELECT statement? It's used to retrieve data from database tables.
- 4. What does the use of an asterisk (*) in the SELECT clause of a SELECT statement represent? All columns in the referenced table
- 5. *What is the purpose of a column alias?* Provides another name for a column that's displayed as the column heading in the output
- 6. *How do you indicate that a column alias should be used?* Include the AS keyword followed by the alias, or list the alias immediately after the column name without a separating comma.
- 7. When is it appropriate to use a column alias? To provide a more descriptive column heading
- 8. *What are the guidelines to keep in mind when using a column alias?* If the column alias includes a blank space or special symbols, or should retain the specified letter case, it must be enclosed in quotation marks.
- 9. *How can you concatenate columns in a query*? Separate the column names with two vertical bars (||) rather than a comma.
- 10. *What is a NULL value*? A NULL value indicates an absence of value. If no value was placed in a field of a row, the field value is empty or NULL.

Multiple Choice

- 1. c
- 2. d
- 3. d
- 4. b 5. b
- 5. c
- о. с 7. с
- 8. c
- 9. d
- 10. d
- 11. a
- 12. c

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- 13. d
- 14. d
- 15. c
- 16. a
- 17. a
- 18. b
- 19. d
- 20. b

Hands-On Assignments

1. SELECT * FROM books;

2.

SELECT title FROM books;

3.

SELECT title, publate "Publication Date" FROM books;

4. SELECT customer#, city, state FROM customers;

5.

SELECT name, contact "Contact Person", phone FROM publisher;

6. SELECT DISTINCT category FROM books;

or

SELECT UNIQUE category FROM books;

7. SELECT DISTINCT customer# FROM orders;

or

SELECT UNIQUE customer# FROM orders;

8. SELECT category, title FROM books;

9. SELECT lname || ', ' || fname FROM author;

10. SELECT order#, item#, isbn, quantity, paideach, quantity*paideach "Item Total" FROM orderitems;

Advanced Challenge

1.

SELECT lastname || ', ' || firstname "Name", address, city || ', ' || state "Location", zip FROM customers;

2.

SELECT title, (retail-cost)/cost*100 "Profit %" FROM books;

Case Study: City Jail

Resumes in Chapter 3.