# **Chapter 18: Database: SQL, MySQL, LINQ and JavaDB**

1. A(n) \_\_\_\_\_\_\_\_ provides mechanisms for storing and organizing data in a manner that facilitates sophisticated queries.

a) database

b) database management system

c) Structured Query Language

d).NET

**Ans: b**

2. SQL is a \_\_\_\_\_\_\_\_.

a) relational database

b) non-relational database

c) language for creating database queries and manipulating data

d) personal relational database

**Ans: c**

3. The \_\_\_\_\_\_\_\_ is a logical representation of the data that allows the relationships between the data to be considered without concerning oneself with the physical implementation of the data structures.

a) relational database model

b) rational database model

c) SQL Server diagram

d) Common Gateway Interface

**Ans: a**

4. A relational database table consists of rows and \_\_\_\_\_\_\_\_.

a) rows

b) primary keys

c) columns

d) result sets

**Ans: c**

5. Each table column in a relational detabase represents a different \_\_\_\_\_\_\_\_.

a) data attribute

b) primary key

c) record

d) result set

**Ans: a**

6. There is a(n) \_\_\_\_\_\_\_\_ relationship between a primary key and its corresponding foreign key.

a) one-to-one

b) one-to-many

c) many-to-one

d) inverse

**Ans: b**

7. The following SQL query:

SELECT \* FROM TableName

a) generates an error.

b) selects all rows from the table TableName.

c) selects all columns from the table TableName.

d) selects all rows and columns from the table TableName.

**Ans: d**

8. The following SQL query:

SELECT lastName FROM Authors

WHERE lastName LIKE '%e\_'

a) selects from the table Authors the lastName fields which start with any single character followed by an ‘e’, then any number of additional characters.

b) selects from the table Authors the lastName fields which start with either the letter e followed by any number of additional characters.

c) selects from the table Authors the lastName fields which constist of any number of characters followed by an ‘e’ and any single character.

d) selects from the table Authors the lastName fields which end with the letter ‘e’.

**Ans: c**

9. The SQL keywords ASC and DESC are used when \_\_\_\_\_\_\_\_ rows.

a) sorting

b) deleting

c) updating

d) creating

**Ans: a**

10. The \_\_\_\_\_\_\_\_ SQL statement is used to change existing data in a table.

a) EDIT

b) UPDATE

c) CHANGE

d) MODIFY

**Ans: b**

11. MySQL functions on the \_\_\_\_\_\_\_\_ platform.

a) Windows

b) Linux

c) UNIX

d) All of the above

Ans: d

12. Sun’s branded version of Apache Derby, a pure Java database, is called \_\_\_\_\_\_\_\_.

a) JSQL

b) JavaBase

c) DBJ

d) Java DB

**Ans: d**

13. Is an open source DBMS product that runs on UNIX, Linux and Windows?

a) MySQL

b) JSP/SQL

c) JDBC/SQL

d) Sun Access

**Ans: a**

14. Which JDBC driver types can you use in a three-tier architecture and if the Web server and the DBMS are running on the same machine?

a) Type 1 only

b) Type 2 only

c) Both Type 3 and Type 4

d) All of Type 1, Type 2, Type 3 and Type 4

**Ans: d**

15. What type of join is needed when you wish to include rows that do not have matching values?

a) Equi-join

b) Natural join

c) Outer join

d) All of the above

**Ans: c**

16. Which of the following is one of the basic approaches for joining tables?

a) Subqueries

b) Union join

c) Natural join

d) All of the above

**Ans: d**

17. A UNION query is which of the following?

a) Combines the output from no more than two queries and must include the same number of columns.

b) Combines the output from no more than two queries and does not include the same number of columns.

c) Combines the output from multiple queries and must include the same number of columns.

d) Combines the output from multiple queries and does not include the same number

of columns.

**Ans: c**

18. The following SQL is which type of join: SELECT CUSTOMER\_T. CUSTOMER\_ID, ORDER\_T. CUSTOMER\_ID, NAME, ORDER\_ID FROM CUSTOMER\_T, ORDER\_T ;

a) Equi-join

b) Natural join

c) Outer join

d) Cartesian join

**Ans: d**

19. Which of the following statements is true concerning subqueries?

a) Involves the use of an inner and outer query.

b) Cannot return the same result as a query that is not a subquery.

c) Does not start with the word SELECT.

d) All of the above.

**Ans: a**

20. The SQL WHERE clause:

a) limits the column data that are returned.

b) limits the row data are returned.

c) Both A and B are correct.

d) Neither A nor B are correct.

**Ans: b**

21. Which of the following are the five built-in functions provided by SQL?

a) COUNT, SUM, AVG, MAX, MIN

b) SUM, AVG, MIN, MAX, MULT

c) SUM, AVG, MULT, DIV, MIN

d) SUM, AVG, MIN, MAX, NAME

**Ans: a**

22. Which one of the following sorts rows in SQL?

a) SORT BY

b) ALIGN BY

c) ORDER BY

d) GROUP BY

**Ans: c**

23. The SQL statement that queries or reads data from a table is \_\_\_\_\_\_\_\_ .

a) SELECT

b) READ

c) QUERY

d) None

**Ans: a**

24. SQL is:

a) A programming language.

b) An operating system.

c) A data sublanguage.

d) A DBMS.

**Ans: c**

25. ON UPDATE CASCADE ensures which of the following?

a) Normalization

b) Data Integrity

c) Materialized Views

d) All of the above.

**Ans: b**

26. Choose the namespace in which expression trees are encapsulated:

a) System.Linq

b) System.Linq.Expression

c) System.Text

d) System.Collections.Generic

**Ans: b**

27. Can we use linq to query against a Data Table?

a) Yes

b) No

c) Either a or b

d) None

**Ans: b**

28. Choose the correct statements about the LINQ?

a) The main concept behind the linq is query

b) linq make use of foreach loop to execute the query

c) It is not required that linq should make use of IEnumnerable interface

d) None

**Ans: a, b**

29. Select the namespace which should be included while making use of LINQ operations:

a) System.Text

b) System.Collections.Generic

c) System.Linq

d) None

**Ans: c**

30. Which of the following methods are needed for loading a database driver in JDBC?

a) registerDriver() method

b) Class.forName()

c) Both a and b

d) getconnection()

**Ans: c**

31. Which driver is called as thin-driver in JDBC?

a) Type-4 driver

b) Type-1 driver

c) Type-3 driver

d) Type-2 driver

**Ans: a**

32. Which statement is static and synchronized in JDBC API?

a) executeQuery()

b) executeUpdate()

c) getConnection()

d) preparecall()

**Ans: c**

33. Which method is used to perform DML statements in JDBC?

a) execute()

b) executeQuery()

c) executeUpdate()

d) executeResult()

**Ans: c**

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