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Score: \_\_\_\_\_\_ /40 (Please do not fill this field)

**For easier assessment, please write your answers in the following table:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **A** | **2** | **B** | **3** | **B** | **4** | **C** | **5** | **B** |
| **6** | **B** | **7** | **A** | **8** | **C** | **9** | **A** | **10** | **B** |
| **11** | **C** | **12** | **A** | **13** | **C** | **14** | **D** | **15** | **B** |
| **16** | **C** | **17** | **A** | **18** | **A** | **19** | **A** | **20** | **C** |
| **21** | **D** | **22** | **B** | **23** | **B** | **24** | **D** | **25** | **B** |
| **26** | **C** | **27** | **A, D** | **28** | **C** | **29** | **C** | **30** | **C** |
| **31** | **D** | **32** | **A** | **33** | **D** | **34** | **D** | **35** | **C** |
| **36** | **D** | **37** | **B** | **38** | **A** | **39** | **D** | **40** | **A** |

|  |
| --- |
| **Note:**  You are not allowed to use class materials and any other materials.  Quiz has to be done individually. |

**Time: 1.5 hour**

**1. What does SQL stand for?**

A. Structured Query Language

B. Structured Question Language

C. Strong Question Language

D. Sad Queen of Los Angeles

**2. Which SQL statement is used to extract data from a table inside a database?**

A. OPEN

B. SELECT

C. GET

D. EXTRACT

**3. Which SQL statement is used to update data in a table inside a database?**

A. SAVE

B. UPDATE

C. SAVE AS

D. MODIFY

**4. Which SQL statement is used to delete data from a table inside a database?**

A. COLLAPSE

B. REMOVE

C. DELETE

D. ERASE

**5. Which SQL statement is used to insert new data in a table inside a database?**

A. INSERT NEW

B. INSERT INTO

C. ADD NEW

D. ADD RECORD

**6. With SQL, how do you select a column named "CustomerId" from a table named "Customers"?**

A. EXTRACT CustomerId FROM Customers

B. SELECT Customers FROM CustomerId

C. SELECT CustomerId FROM Customers

D. SELECT CustomerId.FirstName

**7. With SQL, how do you select all the columns from a table named "Customers"?**

A. SELECT \* FROM Customers

B. SELECT Customers

C. SELECT [all] FROM Customers

D. SELECT \*. Customers

**8. With SQL, how do you select all the records from a table named "Customers" where the value of the column "FirstName" is "Lucy"?**

A. SELECT \* FROM Customers WHERE FirstName<>'Lucy'

B. SELECT [all] FROM Customers WHERE FirstName LIKE 'Lucy'

C. SELECT \* FROM Customers WHERE FirstName='Lucy'

D. SELECT [all] FROM Customers WHERE FirstName='Lucy'

**9. With SQL, how do you select all the records from a table named "Customers" where the value of the column "FirstName" starts with an "a"?**

A. SELECT \* FROM Customers WHERE FirstName LIKE 'a%'

B. SELECT \* FROM Customers WHERE FirstName LIKE '%a'

C. SELECT \* FROM Customers WHERE FirstName='%a%'

D. SELECT \* FROM Customers WHERE FirstName='a'

**10. The OR operator displays a record if ANY conditions listed are true. The AND operator displays a record if ALL of the conditions listed are true**

A. False

B. True

**11. With SQL, how do you select all the records from a table named "Customers" where the "FirstName" is "Lucy" and the "LastName" is "Smith"?**

A. SELECT \* FROM Customers WHERE FirstName<>'Lucy' AND LastName<>'Smith'

B. SELECT \* FROM Customers WHERE FirstName='Lucy' OR LastName='Smith'

C. SELECT \* FROM Customers WHERE FirstName='Lucy' AND LastName='Smith'

D. SELECT FirstName='Lucy', LastName='Smith' FROM Customers

**12. With SQL, how do you select all the records from a table named "Customers" where the "LastName" is alphabetically between (and including) "Hansen" and "Pettersen"?**

A. SELECT \* FROM Customers WHERE LastName BETWEEN 'Hansen' AND 'Pettersen'

B. SELECT \* FROM Customers WHERE LastName>'Hansen' AND LastName<'Pettersen'

C. SELECT LastName>'Hansen' AND LastName<'Pettersen' FROM Customers

D. SELECT \* FROM Customers WHERE LastName='Hansen' OR LastName='Pettersen'

**13. Which SQL statement is used to return only different values in MS SQL Server?**

A. SELECT UNION

B. SELECT UNIQUE

C. SELECT DISTINCT

D. SELECT DIFFERENT

**14. Which SQL keyword is used to sort the result-set?**

A. SORT

B. GROUP BY

C. SORT BY

D. ORDER BY

**15. With SQL, how can you return all the records from a table named "Customers" sorted descending by "FirstName"?**

A. SELECT \* FROM Customers ORDER FirstName DESC

B. SELECT \* FROM Customers ORDER BY FirstName DESC

C. SELECT \* FROM Customers SORT BY 'FirstName' DESC

D. SELECT \* FROM Customers SORT 'FirstName' DESC

**16. With SQL, how can you insert a new record into the "Customers" table?**

A. INSERT ('Hansen', 'Smith') INTO Customers

B. INSERT VALUES ('Hansen', 'Smith') INTO Customers

C. INSERT INTO Customers VALUES ('Hansen', 'Smith')

D. INSERT VALUES ('Hansen', 'Smith') TABLE Customers

**17. With SQL, how can you insert "Smith" as the "LastName" in the "Customers" table?**

A. INSERT INTO Customers (LastName) VALUES ('Smith')

B. INSERT ('Smith') INTO Customers (LastName)

C. INSERT INTO Customers ('Smith') INTO LastName

D. INSERT ('Smith') INTO Customers (FirstName)

**18. How can you change "Hansen" into "Nilsen" in the "LastName" column in the Customers table?**

A. UPDATE Customers SET LastName='Nilsen' WHERE LastName='Hansen'

B. UPDATE Customers SET LastName='Hansen' INTO LastName='Nilsen'

C. MODIFY Customers SET LastName='Hansen' INTO LastName='Nilsen

D. MODIFY Customers SET LastName='Nilsen' WHERE LastName='Hansen'

**19. With SQL, how can you delete the records where the "FirstName" is "Lucy" in the Customers Table?**

A. DELETE FROM Customers WHERE FirstName = 'Lucy'

B. DELETE FirstName='Lucy' FROM Customers

C. DELETE ROW FirstName='Lucy' FROM Customers

D. REMOVE ROW FirstName='Lucy' FROM Customers

**20. With SQL, how can you return the number of records in the "Customers" table?**

A. SELECT COLUMNS() FROM Customers

B. SELECT COLUMNS(\*) FROM Customers

C. SELECT COUNT(\*) FROM Customers

D. SELECT COUNT() FROM Customers

**21. Choose the order of these data types based on the size.**

A. int < tinyint < smallint < bigint

B. smallint < tinyint < int < bigint

C. smallint < tinyint < bigint < int

D. tinyint < smallint < int < bigint

**22. \_\_\_\_\_\_\_\_\_\_\_\_\_ is used to uniquely identify each row in a table.**

A. Foreign key

B. Primary key

C. Identification key

D. Row key

**23. Which one cannot be used as a SQL Server management tools?**

A. SQL Server Management Studio

B. MS Visual Studio

C. Microsoft SQL Executer

D. SQLCMD

**24. \_\_\_\_\_\_\_\_\_\_\_\_\_ help the database application to find data faster, without reading and analyzing the whole table.**

A. Stored Procedures

B. Views

C. Functions

D. Indexes

**25. In SQL Server \_\_\_\_\_\_\_\_\_\_\_\_\_ represent virtual tables.**

A. Stored Procedures

B. Views

C. Functions

D. Indexes

**26. \_\_\_\_\_\_\_\_\_\_\_\_\_:**

**Having the ability to pass parameters to the stored procedure**

**Instead of using the same query over and over again**

**Making the application more secure**

A. Stored Procedures

B. Views

C. Functions

D. Indexes

**27. Which data type is able to store Unicode character strings in it?**

A. varchar(max)

B. char

C. text

D. nvarchar

**28. For which statement we cannot create a trigger?**

A. UPDATE

B. INSERT INTO

C. SELECT

D. DELETE

**29. In MS SQL Server we are only allowed to use pre-defined functions and we are not allowed to create our own user-defined functions unlike MySQL and Oracle.**

A. True

B. Only in some editions of MS SQL Server it is possible

C. No, we can create user-defined functions in MS SQL Server

D. From the next version of MS SQL Server it will be possible

**30. Which statement about MS SQL Management Studio is not true?**

A. A user friendly graphical interface

B. Provides a variety of functionalities for accessing, configuring, managing, administrating, and developing all components of SQL Server

C. MS SQL Management Studio is a tool for both end users and administrations

D. Single instance of SSMS can connect to multiple instances of SQL Server

**31. Which service in MS SQL Server SQL Server lets users and applications run exploring queries against character-based data in SQL Server tables?**

A. Analysis Services

B. Reporting Services

C. Integration Services

D. Full Text Search Service

**32. Which edition of MS SQL Server is free for developers to use and can also be used in a production work?**

A. Express

B. Developer

C. Web

D. Standard

**33. In MS SQL Server Management Studio you can only connect and work with a single instance of MS SQL Server.**

A. True

B. Only in some editions of MS SQL Server it is possible to work with multiple instances

C. From the next version of MS SQL Server it will be possible

D. False, you can already connect to multiple instances of SQL Server

**34. What is not the reason that we need data types?**

A. Performance

B. Space

C. Error Handling

D. All the mentioned answers are the reason we need data types

**35. Which data type cannot include time in its value?**

A. datetime

B. smalldatetime

C. date

D. time

**36. Which data type cannot include date in its value?**

A. datetime

B. smalldatetime

C. date

D. time

**37. What is the statement we use to modify an object in a database?**

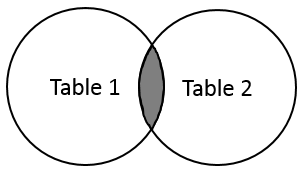
A. CHANGE

B. ALTER

C. MODIFY

D. UPDATE

**38. What type of a JOIN we have to use on these tables to get the desired result?**



A. INNER JOIN

B. OUTER JOIN

C. FULL JOIN

D. RIGHT JOIN

**39. What is keyword to use when we want to get the first specific number of results from a table?**

A. DISTINCT

B. FIRST

C. ORDER BY

D. TOP

**40. Give this point to yourself because you deserve it!**

A. Yes! I did great in this course and I deserve it!

B. Yes! I did great in this course and I deserve it!

C. Yes! I did great in this course and I deserve it!

D. Yes! I did great in this course and I deserve it!

**You need to return this document for your final assessment.**

**Good luck!** ☺ **Farhad Eftekhari**

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