

ASSIGNMENT ON SQL

1. Which of the following clauses is used to display information that match a given pattern?

`SELECT * FROM Tablename WHERE columnname LIKE '%pattern%';`

2. The special database that always exist after setting up MySQL in a computer is _____?
'information_schema' is the special database that always exists. 'mysql' can be seen depending on access rights.

3. Which operator is used to perform integer division in MySQL?

`DIV()`

`SELECT 12 DIV 3;`

4. The query 'SELECT NOW()' shows the current _____?
Returns current date and time.

5. Suppose you want to select a database named 'sampledb' as the default database. Which of the commands do you use?

The USE Statement is used to select a database and perform SQL operations into that database. The database remains default until end of session or execution of another USE statement with some other database.

6. What does 'abc' & 'xyz' specify?

`CREATE TABLE abc (xyz);`

7. To see the table structure, which of the following command is issued?

`exec sp_columns MyTable;`

```
|
exec sp_columns consultadd;
```

TABLE_QUALIFIER	TABLE_OWNER	TABLE_NAME	COLUMN_NAME	DATA_TYPE	TYPE_NAME	PRECISION	LENGTH	SCALE	RADIX	NULLABLE	REMARKS
Assignments	dbo	consultadd	Consultadd_ID	4	int	10	4	0	10	1	NULL
Assignments	dbo	consultadd	Name	12	varchar	255	255	NULL	NULL	1	NULL
Assignments	dbo	consultadd	contact	12	varchar	255	255	NULL	NULL	1	NULL
Assignments	dbo	consultadd	Dateofjoining	-9	date	10	20	NULL	NULL	1	NULL
Assignments	dbo	consultadd	City	12	varchar	255	255	NULL	NULL	1	NULL
Assignments	dbo	consultadd	Postalcode	4	int	10	4	0	10	1	NULL
Assignments	dbo	consultadd	country	12	varchar	1	1	NULL	NULL	1	NULL

8. To execute the contents of a query file 'exec.sql' by feeding it to Mysql, which command is used?

mysql queries can be run after placing the queries in a file, and then executing it by feeding it to mysql. By default, mysql prints output in a tab-delimited format when it is running in noninteractive mode
mysql sampdb < exec.sql

9. The clause that enables mapping a short command to a long Command is _____?

An alias is defined by the keyword 'alias' followed by the short and long commands.

10. Which statement can be used to specify the sql_mode system Variable at runtime?

The 'SET' statement can change the SQL mode at runtime. For example, the statement SET sql_mode = 'ANSI_QUOTES' can be used by a client in its own session specific SQL mode

11. Which of the following characters is illegal in naming an unquoted Identifier in SQL?

12. How are identifiers quoted in MySQL?

The identifier quote character is the backtick (`)

```
SELECT * FROM `select` WHERE `select`.id > 100;
```

13. What is the maximum length for alias names in terms of characters?

Aliases have a maximum length of 256 characters

14. What does a fully qualified table name consist of?

<catalog>.<schema>.<table>

15. The default case sensitivity of database and table names depends

On _____?

Operating system of machine

16. Which property determines whether a database objective is case

Sensitive?

The way to determine whether a database object or a database is case sensitive or not is to check the 'COLLATION' property. The result would be either CI for insensitive or CS for sensitive.

17. Create a database table according to the table given below on

MySQL workbench and perform the queries on the table

Consultadd_id	Name	Contactname	Date Of Joining	City	Postalcode	Country
101	Alfreds	Martino	01/08/2017	Florida	32118	USA
102	Ana trujillo	Ritviz	23/02/2018	Berlin	10115	Germany
103	Antonio	Akon	05/11/2018	Denver	80014	USA
104	Tenzin	Yashi	13/01/2019	Boston	02101	USA
105	Thomas	John	02/03/2017	Mexico	05021	Mexico
106	Christina	Akon	11/04/2019	Chicago	60007	USA
107	Perry	Yashi	30/04/2018	Boston	02101	USA

108	Jued methw	Ritviz	01/01/2019	Denver	80014	USA
109	Alaska	Akon	15/12/2018	Miami	33101	USA
110	Marina	John	24/08/2017	Berlin	10115	Germany

Consultadd_id	Project	Salary(\$)	Country	Email
101	P1	30	USA	abc.01@gmail.com
102	P2	25	Germany	xyz.02@gmail.com
103	P2	50	USA	pqr.03@gmail.com
104	P3	35	USA	xyz.04@gmail.com
105	P1	20	Mexico	abc.05@gmail.com
106	P4	45	USA	pqr.06@gmail.com
107	P3	54	USA	abc.07@gmail.com
108	P2	85	USA	xyz.08@gmail.com
109	P1	40	USA	pqr.09@gmail.com
110	P4	35	Germany	abc.10@gmail.com

18. Write a sql query to fetch the count of Consultants working in project P1?

Select count(Consultadd_id) from consultadd where project = 'p1';

19. Write a SQL query to fetch common records between two tables?

```
SELECT * FROM Consultadd INTERSECT SELECT * FROM Project;
```

20. Write a SQL query to fetch records that are present in one table but not in another table?

21. Write a SQL query to fetch consultants name having salary greater than Or equal to 30\$ and less than or equal to 50\$?

```
SELECT c.name  
FROM consultadd c  
WHERE SALARY BETWEEN 30 AND 50  
FROM Project p  
WHERE c.consultadd_id = p.consultadd_id;
```

22. Write a SQL query to fetch project-wise count of consultants sorted by project's count in descending order?

```
select count(consultadd_id) headcount, project  
From project  
group by project  
order by headcount DESC;
```

23. Write a SQL query to fetch duplicate records from a table?

```
SELECT  
    Column1, Column2, Column3, Column4, COUNT(*)  
FROM  
    TableName  
GROUP BY  
    Column1, Column2, Column3, Column4  
HAVING  
    COUNT(*) > 1
```

24. Write a SQL query to remove duplicates from a table without using temporary tables?

25. Write a SQL query to fetch only odd rows from table?

Select id,Name from tablename group by id having mod(id,2) = 1;