| | troduc | tion: |
|---|---|--|
| | Data: | |
| | | Data is facts related to any entity in consideration. |
| | Datab | |
| | → ⊔ | Database |
| | | Database is collection of tables. |
| | | Each table is made of a series of columns. |
| | | Data is stored in rows. |
| | | Place where row intersects with columns is called field. |
| | Datab | ase Management Systems (DBMS): |
| - | → □ | DBMS |
| | | |
| | Relatio | onal Database: |
| | | It is a database made up of tables and columns that relate to one another. |
| | | The relationships are based on a key that is contained in a column. |
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| _ | 121211111 | |
| | | |
| | 57.00 HS | ntroduction: |
| | ySQL I MySQ | |
| | 57.00 HS | |
| | MySQ | |
| | MySQ MySQ | L is |
| | MySQ MySQ release | L is L was developed by Michael Widenius & team at Swedish firm MySQL AB and |
| | MySQ MySQ release Its nar | L is L was developed by Michael Widenius & team at Swedish firm MySQL AB and ed within company in 1995. |
| | MySQI mySQI release Its nar MySQI | L is L was developed by Michael Widenius & team at Swedish firm MySQL AB and ed within company in 1995. The is combination of My – name of co-founders daughter and SQL. |
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| ce | SQL operates in a networked environment using a client/server architecture i.e. a atral program acts as a server and various client program connect to the server to | | | |
|------------|--|--|--|--|
| | ke requests. | | | |
| ☐ M | SQL installation has following major components: | | | |
| | ☐ mysqld → MySQL Server: | | | |
| | □ It is the database server program which manages access to the actual databases on disk and in memory. □ It is multithreaded and supports many simultaneous client connections □ mysql → Client programs: | | | |
| | | | | |
| | | | | |
| | → □ It is a command | | | |
| | It's used for issuing queries and viewing results interactively from a | | | |
| | terminal window. | | | |
| | MySQL Workbench is the graphical front ends to the server. | | | |
| Conn | ection Parameters: | | | |
| | SQL User Identification: | | | |
| | ☐ Options | | | |
| | □user | | | |
| | ☐ MySQL account username | | | |
| | □password | | | |
| | □ MySQL account password | | | |
| | Usage: | | | |
| | user=user_name or -u user_name | | | |
| | password=pass_value or -ppassvalue | | | |
| <u></u> | | | | |
| □ M | SQL options for establishing connection: | | | |
| | □ Options | | | |
| | host | | | |
| | host where the server is running -port | | | |
| | port number for TCP/IP connections. | | | |
| | Usage: | | | |
| | | | | |
| | | | | |
| | ☐host=host_name or -h host_name | | | |
| | host=host_name or -h host_nameThe value of host_name can be hostname or an IP number. | | | |
| | host=host_name or -h host_name The value of host_name can be hostname or an IP number. Default hostname is <u>localhost</u> meaning the computer on which we are | | | |
| | host=host_name or -h host_name The value of host_name can be hostname or an IP number. Default hostname is <u>localhost</u> meaning the computer on which we are running the client program. | | | |
| | □host=host_name or -h host_name □ The value of host_name can be hostname or an IP number. □ Default hostname is <u>localhost</u> meaning the computer on which we are running the client program. □port=port_number or -P port_number | | | |
| | host=host_name or -h host_name The value of host_name can be hostname or an IP number. Default hostname is <u>localhost</u> meaning the computer on which we are running the client program. | | | |

| SC | |
|----|---|
| _ | SQL – Structured Query Language is the |
| | SQL Advantages: |
| | ☐ We can access many records in a single command. |
| | ☐ It eliminates the need to specify how to reach a record |
| DE | DL: |
| | DDL is abbreviation of Data Definition Language. It is used to create and modify the |
| | structure of database objects in database. |
| | DDL Statements in MySQL: |
| | ☐ CREATE – Creates objects in the database. |
| | ☐ ALTER – Alters objects of the database. |
| | ☐ DROP – Deletes objects of the database. |
| | ☐ TRUNCATE – Deletes all records from a table. |
| | ☐ RENAME – Renames tables/views to new names. |
| | 11.0. |
| D۱ | 1L: |
| | DML is abbreviation of Data Manipulation Language. It is used to retrieve, store, modify, |
| | delete and update data in database. |
| | DML Statements in MySQL: |
| | ☐ SELECT – Retrieves data from a table. |
| | ☐ INSERT – Inserts data into a table. |
| | ☐ UPDATE – Updates existing data into a table. |
| | ☐ DELETE – Deletes all records from a table. |
| | ☐ REPLACE – Inserts data into table and if already exists then deletes and inserts. |
| тс | |
| TC | |
| | TCL is abbreviation of Transactional Control Language. It is used to manage different |
| | transactions occurring within a database. |
| Ч | TCL statement in MySQL: |
| | □ BEGIN – Starts the transaction. |
| | COMMIT – Saves work done in transactions |
| | ROLLBACK – Restores database to original state since the last COMMIT command in transactions |
| DC | L: |
| | DCL is abbreviation of Data Control Language. It is used to create roles, permissions and |
| | control access to database. |
| | DCL statements in MySQL: |
| | ☐ GRANT – Gives user's access privileges to database |
| | ☐ REVOKE – Withdraws user's access privileges to database given with the GRANT |
| | command |

MCQs

Q1) MySQL was developed by

Options:

A. Bill Gates B. Michael Widenius C. James Gosling D. Larry Page

Solution:

Q2) What is the full form of SQL

Options:

A. Structured Query Language B. Structured Query List C. Simple Query Language D. None of these

Solution:

Q3) Which of the following are DDL statements in MySQL: (Select two)

Options:

A) CREATE B) INSERT
C) MODIFY D) ALTER

Solution:

Q4) Which of the following are DML statements in MySQL: (Select two)

Options:

A) DELETE
C) SELECT
B) DROP
D) RENAME

Solution:

Q5) Which of the following are TCL commands?

Options:

a) UPDATE and TRUNCATE b) SELECT and INSERT c) GRANT and REVOKE d) ROLLBACK and COMMIT

Solution:

Q6) Match SQL language with SQL commands

1)DDL i)Revoke, Grant
2)DML ii)rename a table
3)TCL iii)insert, update
4)DCL iv)rollback, commit

Options:

A. 1-iii,2-i,3-ii,4-ivB. 1-iii,2-ii,3-iv,4-iC. 1-ii,2-iii,3-iv,4-i

D. 1-i,2-iii,3-ii,4-iv

Solution: