MCQ Question: Which SQL statement is used to create a new database?

Options:

1. CREATE DB
2. ADD DATABASE
3. MAKE DB
4. <mark>CREATE DATABASE</mark>

Correct Answer: CREATE DATABASE

MCQ Question: What is the purpose of the PRIMARY KEY constraint in a table?

Options:

1. <mark>Ensures unique values in a column</mark>
2. Allows NULL values
3. Adds a default value
4. Removes duplicates

Correct Answer: Ensures unique values in a column

MCQ Question: Which data type is commonly used for storing date and time values?

Options:

1. VARCHAR
2. INT
3. <mark>DATE</mark>
4. BOOLEAN

Correct Answer: DATE

MCQ Question: What does the SQL acronym DDL stand for?

Options:

1. <mark>Data Definition Language</mark>
2. Data Description Language
3. Database Design Language
4. Dynamic Data Language

Correct Answer: Data Definition Language

MCQ Question: Which keyword is used to add a new column to an existing table?

Options:

1. ADD COLUMN
2. INSERT COLUMN
3. MODIFY COLUMN
4. ALTER COLUMN

Correct Answer: ADD COLUMN

MCQ Question: What SQL statement is used to remove a view from a database?

Options:

1. DELETE VIEW
2. REMOVE VIEW
3. DROP VIEW
4. ERASE VIEW

Correct Answer: DROP VIEW

MCQ Question: What happens when you drop a view in a database?

Options:

1. All data in the view is deleted
2. The view is disabled temporarily
3. The view is removed from the database schema
4. The view becomes read-only

Correct Answer: The view is removed from the database schema

MCQ Question: Which of the following is true regarding dropping views?

Options:

1. Views can only be dropped if they have no data
2. Views are automatically dropped when tables are dropped
3. Views cannot be dropped; they can only be disabled
4. Dropping a view has no impact on the underlying data

Correct Answer: Dropping a view has no impact on the underlying data

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MCQ Question: In SQL, what command is used to list all views in a database?

Options:

1. SHOW VIEWS
2. DESCRIBE VIEWS
3. LIST VIEWS

4. SELECT VIEWS

Correct Answer: SHOW VIEWS

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MCQ Question: What is the purpose of using views in a database?

Options:

1. To store large amounts of data
2. To simplify complex queries
3. To enforce data integrity
4. To create backups automatically

Correct Answer: To simplify complex queries

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MCQ Question: Which SQL statement is used to execute a stored procedure?

Options:

1. RUN PROCEDURE
2. EXECUTE PROCEDURE
3. DO PROCEDURE
4. CALL PROCEDURE

Correct Answer: CALL PROCEDURE

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MCQ Question: What is a stored procedure in a database?

Options:

1. A table that stores temporary data
2. A predefined, reusable set of SQL statements
3. A view that displays data from multiple tables
4. A trigger that executes automatically

Correct Answer: A predefined, reusable set of SQL statements

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MCQ Question: How can parameters be passed to a stored procedure?

Options:

1. Only by reference
2. Only by value
3. By reference or by value
4. Parameters cannot be passed to stored procedures

Correct Answer: By reference or by value

MCQ Question: What is the advantage of using stored procedures?

Options:

1. They can only be executed once
2. They are useful only for simple queries
3. They enhance security by preventing SQL injection
4. They can only be created by database administrators

Correct Answer: They enhance security by preventing SQL injection

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MCQ Question: In SQL, what keyword is used to define a stored procedure?

Options:

1. DEFINE PROCEDURE
2. CREATE PROCEDURE
3. MAKE PROCEDURE
4. SET PROCEDURE

Correct Answer: CREATE PROCEDURE

MCQ Question: What is a cursor in SQL used for?

Options:

1. To perform database backups
2. To store multiple query results temporarily
3. To execute stored procedures
4. To manage database connections

Correct Answer: To store multiple query results temporarily

MCQ Question: Which of the following statements is true regarding cursors?

Options:

1. Cursors are only used for read-only operations
2. Cursors can be used to navigate through query results
3. Cursors are not supported in SQL
4. Cursors are used to update entire tables at once

Correct Answer: Cursors can be used to navigate through query results

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MCQ Question: What is the purpose of the FETCH statement in SQL cursors?

Options:

1. To close the cursor
2. <mark>To fetch the next row from the result set</mark>
3. To delete rows from the result set
4. To create a new cursor

Correct Answer: To fetch the next row from the result set

MCQ Question: In SQL, what is an implicit cursor?

Options:

1. <mark>A cursor that is automatically created by the database system</mark>
2. A cursor that must be explicitly declared by the programmer
3. A cursor that is used only for update operations
4. A cursor that is used for dynamic SQL queries

Correct Answer: A cursor that is automatically created by the database system

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MCQ Question: When is it appropriate to use a cursor in SQL?

Options:

1. Always, for any type of query
2. Only for simple SELECT statements
3. <mark>Only when absolutely necessary, for complex scenarios</mark>
4. Cursors should never be used in SQL

Correct Answer: Only when absolutely necessary, for complex scenarios

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MCQ Question: In databases, what is a trigger primarily used for?

Options:

1. To generate random data
2. To execute scheduled tasks
3. <mark>To enforce data integrity rules</mark>
4. To optimize database performance

Correct Answer: To enforce data integrity rules

MCQ Question: What is the key difference between a stored procedure and a trigger?

Options:

1. Triggers are always executed manually
2. Stored procedures are always triggered by events
3. Stored procedures can return values, triggers cannot

4. <mark>Triggers are automatically executed in response to events</mark>

Correct Answer: Triggers are automatically executed in response to events

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MCQ Question: When is a trigger typically executed in a database?

Options:

1. Before an event (BEFORE trigger)
2. After an event (AFTER trigger)
3. <mark>Both before and after an event</mark>
4. Triggers are never executed automatically

Correct Answer: Both before and after an event

MCQ Question: What type of events can activate a trigger in a database?

Options:

1. Only SELECT statements
2. <mark>Only INSERT, UPDATE, DELETE statements</mark>
3. Any SQL statements
4. Triggers cannot be activated by events

Correct Answer: Only INSERT, UPDATE, DELETE statements

MCQ Question: What is the purpose of the NEW and OLD keywords in triggers?

Options:

1. To specify the order of trigger execution
2. <mark>To reference new and old values of the data being modified</mark>
3. To define the trigger's name
4. To control the visibility of the trigger in the database schema

Correct Answer: To reference new and old values of the data being modified

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MCQ Question: What is the primary purpose of the "Opening" operation in DBMS?

Options:

1. Retrieving data from the database
2. <mark>Establishing a connection with the database</mark>
3. Performing calculations on the database
4. Modifying the database structure

Correct Answer: Establishing a connection with the database

MCQ Question: Which component in a DBMS is responsible for executing the "Fetching" operation?

Options:

1. Query Optimizer
2. <mark>Buffer Manager</mark>
3. Transaction Manager
4. Concurrency Control

Correct Answer: Buffer Manager

MCQ Question: What does the "Closing" operation in DBMS involve?

Options:

1. Shutting down the database server
2. <mark>Terminating the connection with the database</mark>
3. Saving the changes made to the database
4. Backing up the entire database

Correct Answer: Terminating the connection with the database

MCQ Question: During the "Opening" process in DBMS, what authentication step is typically involved?

Options:

1. Data Encryption
2. <mark>Access Control</mark>
3. Indexing
4. Transaction Logging

Correct Answer: Access Control

MCQ Question: The "Fetching" operation in DBMS primarily involves:

Options:

1. Deleting data from the database
2. Modifying the database schema
3. <mark>Retrieving specific data from the database</mark>
4. Creating a backup of the database

Correct Answer: Retrieving specific data from the database