* Overview of CRUD Operations
* Overview of Database Operations
* DDL - Data Definition Language
* DML - Data Manipulation Language
* DQL - Data Query Language
* Insert Data into a table
* Update Data in a table
* Delete Data from a table
* Exercise and Solution

1. Which operation is used to add a new record to a database table?

a) CREATE

b) INSERT

c) UPDATE

d) DELETE

Answer: b) INSERT

1. What is normalization?

a) The process of organizing data in a database

b) The process of removing data from a database

c) The process of adding data to a database

d) The process of modifying data in a database

Answer: a) The process of organizing data in a database

1. Which DDL command is used to remove a table from a database?

a) DROP TABLE

b) ALTER TABLE

c) CREATE TABLE

d) UPDATE TABLE

Answer: a) DROP TABLE

1. Which DML command is used to modify existing data in a table?

a) INSERT

b) UPDATE

c) DELETE

d) SELECT

Answer: b) UPDATE

1. Which DQL command is used to retrieve data from multiple tables at once?

a) INNER JOIN

b) OUTER JOIN

c) UNION

d) ALL

Answer: d) ALL

1. What is the syntax for inserting data into a table?

a) INSERT INTO table\_name (column1, column2, column3) VALUES (value1, value2, value3);

b) ADD INTO table\_name (column1, column2, column3) VALUES (value1, value2, value3);

c) UPDATE INTO table\_name (column1, column2, column3) VALUES (value1, value2, value3);

d) INSERT table\_name (column1, column2, column3) VALUES (value1, value2, value3);

Answer: a) INSERT INTO table\_name (column1, column2, column3) VALUES (value1, value2, value3);

1. What is the syntax for updating data in a table?

a) UPDATE table\_name SET column1 = value1, column2 = value2 WHERE condition;

b) MODIFY table\_name SET column1 = value1, column2 = value2 WHERE condition;

c) ALTER table\_name SET column1 = value1, column2= value2 WHERE condition;

d) CHANGE table\_name SET column1 = value1, column2 = value2 WHERE condition;

Answer: a) UPDATE table\_name SET column1 = value1, column2 = value2 WHERE condition;

1. Which of the following is not a valid way to delete data from a table?

a) DELETE FROM table\_name;

b) TRUNCATE TABLE table\_name;

c) DROP TABLE table\_name;

d) DELETE \* FROM table\_name;

Answer: d) DELETE \* FROM table\_name; (the correct syntax is DELETE FROM table\_name)

1. Which operation is used to modify data in an existing table in a database?

a) INSERT

b) UPDATE

c) CREATE

d) DELETE

Answer: b) UPDATE

1. What is the purpose of the AUTOINCREMENT keyword when creating a table?

a) To automatically insert new data into the table

b) To automatically generate a unique value for a column

c) To automatically update existing data in the table

d) To automatically delete data from the table

Answer: b) To automatically generate a unique value for a column