## **SQL Commands**

# **Data Definition Language (DDL) Commands**

### **CREATE**

Creates a new database, table, index, or view.

```
- Create a database:
```sql
CREATE DATABASE database_name;
- Create a table:
```sql
CREATE TABLE table_name (
 column1 datatype,
 column2 datatype,
 column3 datatype,
);
ALTER
Modifies an existing database object, such as a table.
- Add a column to a table:
```sql
ALTER TABLE table_name
ADD column_name datatype;
- Modify a column:
```sql
ALTER TABLE table_name
ALTER COLUMN column_name datatype;
- Drop a column:
```sql
ALTER TABLE table_name
DROP COLUMN column_name;
***
```

### **DROP**

Deletes an existing database, table, index, or view.

```
- Drop a database:
```sql
DROP DATABASE database_name;
- Drop a table:
```sql
DROP TABLE table_name;
TRUNCATE
Removes all records from a table, including all spaces allocated for the records are removed.
- Truncate a table:
```sql
TRUNCATE TABLE table_name;
Data Manipulation Language (DML) Commands
SELECT
Retrieves records from one or more tables.
- Select all columns from a table:
```sql
SELECT * FROM table_name;
- Select specific columns:
SELECT column1, column2 FROM table_name;
INSERT
Adds new records into a table.
- Insert a single record:
```sql
INSERT INTO table_name (column1, column2, column3, ...)
VALUES (value1, value2, value3, ...);
- Insert multiple records:
INSERT INTO table_name (column1, column2, column3, ...)
```

VALUES

(value1, value2, value3, ...), (value1, value2, value3, ...),

```
...
```

#### **UPDATE**

Modifies existing records in a table.

```
- Update specific records:""sqlUPDATE table_nameSET column1 = value1, column2 = value2WHERE condition;
```

#### **DELETE**

Deletes existing records from a table.

```
Delete specific records:"sqlDELETE FROM table_nameWHERE condition;
```

### **Data Control Language (DCL) Commands**

#### **GRANT**

Gives a user permission to perform specific tasks.

```
- Grant permission:""sqlGRANT SELECT, INSERT, UPDATE ON table_name TO user_name;
```

#### **REVOKE**

Removes a user's permission to perform specific tasks.

```
- Revoke permission:""sqlREVOKE SELECT, INSERT, UPDATE ON table_name FROM user_name;""
```

### **Transaction Control Language (TCL) Commands**

#### COMMIT

Saves all transactions to the database.

- Commit a transaction:

```
```sql
```

```
COMMIT;
```

### **ROLLBACK**

Undoes transactions that have not yet been saved to the database.

```
- Rollback a transaction:
```

```
```sql
```

ROLLBACK;

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### **SAVEPOINT**

Sets a point within a transaction to which you can later roll back.

```
- Create a savepoint:
```

```
```sql
```

SAVEPOINT savepoint\_name;

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- Rollback to a savepoint:

```sql

ROLLBACK TO SAVEPOINT savepoint\_name;

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