DDL (Data Definition Language) commands

1. CREATE

The CREATE statement is used to create new database objects like databases, tables, views, indexes, etc.

Example: Creating a new table

```
CREATE TABLE customers (
customer_id INT PRIMARY KEY AUTO_INCREMENT,
first_name VARCHAR(50) NOT NULL,
last_name VARCHAR(50) NOT NULL,
email VARCHAR(100) UNIQUE,
phone VARCHAR(20)
);
```

2. ALTER

The ALTER statement is used to modify the structure of an existing database object.

Example: Adding a new column to an existing table

ALTER TABLE customers ADD city VARCHAR(50);

2.1. Adding a new column to a table

ALTER TABLE customers ADD phone number VARCHAR(20);

2.2. Modifying a column's data type

ALTER TABLE orders MODIFY order_date DATE;

2.3. Renaming a column

ALTER TABLE products RENAME COLUMN prod_name TO product_name;

2.4. Adding a constraint to a column

ALTER TABLE employees ADD CONSTRAINT unique email UNIQUE (email);

2.5. Dropping a column

ALTER TABLE orders DROP COLUMN shipping address;

3. RENAME

The RENAME statement is used to rename an existing database object.

Example: Renaming a table

RENAME TABLE customers TO clients;

4. TRUNCATE

The TRUNCATE statement is used to remove all rows from a table while keeping the table structure intact.

Example: Truncating a table

TRUNCATE TABLE clients;

5. DROP

The DROP statement is used to remove an existing database object entirely.

Example: Dropping a table

DROP TABLE clients;

Example: Dropping a database

DROP DATABASE customer database;

Here are some additional examples of using DDL statements:

Creating a new database CREATE DATABASE customer_database;

6. VIEWS

Creating a new view
CREATE VIEW active_customers AS
SELECT customer_id, first_name, last_name, email
FROM customers
WHERE status = 'active';