```
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.34 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

CREATE DATABASE ecommerce;

```
mysql> CREATE DATABASE ecommerce;
Query OK, 1 row affected (0.00 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| college            |
| customer           |
| ecommerce          |
| information_schema |
| mysql              |
| performance_schema |
| school             |
| shopify            |
| sys                |
+--------------------+
9 rows in set (0.00 sec)
```

USE ecommerce;

Data Definition Language (DDL) Commands:

CREATE TABLES

CREATE TABLE users (

  user_id INT AUTO_INCREMENT PRIMARY KEY,

  first_name VARCHAR(30) NOT NULL,

  last_name VARCHAR(30) NOT NULL,

  email VARCHAR(40) NOT NULL,

  house_no INT NOT NULL,

  locality VARCHAR(30) NOT NULL,

  city VARCHAR(20) NOT NULL,

  pincode INT NOT NULL

);

```sql
CREATE TABLE category (
  category_id INT AUTO_INCREMENT PRIMARY KEY,
  category_name VARCHAR(255) NOT NULL,
  avg_price_in_category INT NOT NULL,
  no_of_products INT NOT NULL
);


CREATE TABLE products (
  product_id INT AUTO_INCREMENT PRIMARY KEY,
  category_id INT NOT NULL ,
  product_name VARCHAR(255) NOT NULL,
  product_description VARCHAR(255) NOT NULL,
  product_images VARCHAR(255) NOT NULL,
  FOREIGN KEY (category_id) REFERENCES category (category_id) ON DELETE CASCADE
);
CREATE TABLE orders (
  order_id INT NOT NULL AUTO_INCREMENT,
  user_id INT NOT NULL,
  product_id INT NOT NULL,
  quantity INT NOT NULL,
  PRIMARY KEY (order_id),
  FOREIGN KEY (user_id) REFERENCES users (user_id) ON DELETE CASCADE,
  FOREIGN KEY (product_id) REFERENCES products (product_id) ON DELETE CASCADE
);


CREATE TABLE reviews (
  review_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
  user_id INT NOT NULL,
  product_id INT NOT NULL,
  rating INT NOT NULL,
  review_discription VARCHAR(255) NOT NULL,
  FOREIGN KEY (user_id) REFERENCES users (user_id) ON DELETE CASCADE,
  FOREIGN KEY (product_id) REFERENCES products (product_id) ON DELETE CASCADE
);
```

CREATE TABLE price (

 product_id INT NOT NULL,

 amount INT NOT NULL,

 site_name VARCHAR(255) NOT NULL

);

   1.   CREATE TABLE users

```
mysql> USE ecommerce;
Database changed
mysql> CREATE TABLE users (
    ->    user_id INT AUTO_INCREMENT PRIMARY KEY,
    ->    first_name VARCHAR(30) NOT NULL,
    ->    last_name VARCHAR(30) NOT NULL,
    ->    email VARCHAR(40) NOT NULL,
    ->    house_no INT NOT NULL,
    ->    locality VARCHAR(30) NOT NULL,
    ->    city VARCHAR(20) NOT NULL,
    ->    pincode INT NOT NULL
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> desc users;
+------------+-------------+------+-----+---------+----------------+
| Field      | Type        | Null | Key | Default | Extra          |
+------------+-------------+------+-----+---------+----------------+
| user_id    | int         | NO   | PRI | NULL    | auto_increment |
| first_name | varchar(30) | NO   |     | NULL    |                |
| last_name  | varchar(30) | NO   |     | NULL    |                |
| email      | varchar(40) | NO   |     | NULL    |                |
| house_no   | int         | NO   |     | NULL    |                |
| locality   | varchar(30) | NO   |     | NULL    |                |
| city       | varchar(20) | NO   |     | NULL    |                |
| pincode    | int         | NO   |     | NULL    |                |
+------------+-------------+------+-----+---------+----------------+
8 rows in set (0.00 sec)
```

   2.   INSERT INTO users

```
mysql> INSERT INTO users (first_name, last_name, email, house_no, locality, city, pincode) VALUES
    -> ('Shree', 'Doe', 'shree@gmail.com', 123, 'Main Street', 'Mumbai', 400001),
    -> ('Raj', 'Smith', 'raj@gmail.com', 456, 'Park Avenue', 'Delhi', 110001),
    -> ('Amit', 'Patel', 'amit@gmail.com', 789, 'Gandhi Nagar', 'Ahmedabad', 380001);
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM users;
+---------+------------+-----------+-----------------+----------+--------------+-----------+---------+
| user_id | first_name | last_name | email           | house_no | locality     | city      | pincode |
+---------+------------+-----------+-----------------+----------+--------------+-----------+---------+
|       1 | Shree      | Doe       | shree@gmail.com |      123 | Main Street  | Mumbai    |  400001 |
|       2 | Raj        | Smith     | raj@gmail.com   |      456 | Park Avenue  | Delhi     |  110001 |
|       3 | Amit       | Patel     | amit@gmail.com  |      789 | Gandhi Nagar | Ahmedabad |  380001 |
+---------+------------+-----------+-----------------+----------+--------------+-----------+---------+
3 rows in set (0.00 sec)
```

ALTER Command :

   1.   ADD Column

```
mysql> ALTER TABLE users
    -> ADD age INT ;
Query OK, 0 rows affected (0.02 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql>  SELECT * FROM users;
+---------+------------+-----------+-----------------+----------+--------------+-----------+---------+------+
| user_id | first_name | last_name | email           | house_no | locality     | city      | pincode | age  |
+---------+------------+-----------+-----------------+----------+--------------+-----------+---------+------+
|       1 | Shree      | Doe       | shree@gmail.com |      123 | Main Street  | Mumbai    |  400001 | NULL |
|       2 | Raj        | Smith     | raj@gmail.com   |      456 | Park Avenue  | Delhi     |  110001 | NULL |
|       3 | Amit       | Patel     | amit@gmail.com  |      789 | Gandhi Nagar | Ahmedabad |  380001 | NULL |
+---------+------------+-----------+-----------------+----------+--------------+-----------+---------+------+
3 rows in set (0.00 sec)
```

   2.   DROP Column

```
mysql> ALTER TABLE users
    -> DROP COLUMN age;
Query OK, 0 rows affected (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql>  SELECT * FROM users;
+---------+------------+-----------+-----------------+----------+--------------+-----------+---------+
| user_id | first_name | last_name | email           | house_no | locality     | city      | pincode |
+---------+------------+-----------+-----------------+----------+--------------+-----------+---------+
|       1 | Shree      | Doe       | shree@gmail.com |      123 | Main Street  | Mumbai    | 400001  |
|       2 | Raj        | Smith     | raj@gmail.com   |      456 | Park Avenue  | Delhi     | 110001  |
|       3 | Amit       | Patel     | amit@gmail.com  |      789 | Gandhi Nagar | Ahmedabad | 380001  |
+---------+------------+-----------+-----------------+----------+--------------+-----------+---------+
3 rows in set (0.00 sec)
```

3.   MODIFY Column

```
mysql> ALTER TABLE users
    -> MODIFY COLUMN  house_no INT;
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM users;
+---------+------------+-------------+-----------------+----------+--------------+-----------+---------+
| user_id | first_name | middle_name | email           | house_no | locality     | city      | pincode |
+---------+------------+-------------+-----------------+----------+--------------+-----------+---------+
|       1 | Shree      | Doe         | shree@gmail.com |      123 | Main Street  | Mumbai    | 400001  |
|       2 | Raj        | Smith       | raj@gmail.com   |      456 | Park Avenue  | Delhi     | 110001  |
|       3 | Amit       | Patel       | amit@gmail.com  |      789 | Gandhi Nagar | Ahmedabad | 380001  |
+---------+------------+-------------+-----------------+----------+--------------+-----------+---------+
3 rows in set (0.00 sec)
```

TRUNCATE Command

```
mysql> TRUNCATE TABLE  users;
Query OK, 0 rows affected (0.02 sec)

mysql> SELECT * FROM users;
Empty set (0.00 sec)
```