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Updating and Upgrading:

Update Package Lists:

```
sudo apt update
```

Upgrade Installed Packages:

```
sudo apt upgrade
```

Installing MySQL Server and Client:

Install MySQL Server:

```
sudo apt install mysql-server
```

Install MySQL Client:

```
sudo apt install mysql-client
```

Checking MySQL Version and Managing Service:

Check MySQL Version:

```
mysql --version
```

Start MySQL Service:

```
sudo service mysql start
```

Stop MySQL Service:

```
sudo service mysql stop
```

Restart MySQL Service:

```
sudo service mysql restart
```

SQL Editor and Database Management:

Start SQL Editor (MySQL CLI):

```
mysql -u root -p
```

Create Database:

```
CREATE DATABASE your_database;
```

Create User:

```
CREATE USER 'your_user'@'localhost' IDENTIFIED BY  
'your_password';
```

Grant All Permissions:

```
GRANT ALL PRIVILEGES ON your_database.* TO  
'your_user'@'localhost';
```

```
FLUSH PRIVILEGES;
```

Show Grants for User:

```
SHOW GRANTS FOR 'your_user'@'localhost';
```

Create Database (again, for clarity):

```
CREATE DATABASE database_name;
```

Table Operations:

Create Table:

```
CREATE TABLE your_table (
```

```
    id INT,
```

```
    name VARCHAR(50),
```

```
    description TEXT,
```

```
);
```

Insert Values into Table:

```
INSERT INTO table_name (id, name) VALUES (1, 'Mahmoud');
```

Display Total Number of Tables:

```
SHOW TABLES;
```

Display Total Number of Databases:

```
SHOW DATABASES;
```

Get All Values from Particular Table:

```
SELECT * FROM table_name;
```

Show Number of Entries in a Table:

```
SELECT COUNT(*) FROM table_name;
```

Alter the Table (add a new column, for example):

```
ALTER TABLE table_name
```

```
ADD COLUMN new_column VARCHAR(50);
```