SQL Command Guide:

- Database level:
  1. CREATE DATABASE mysqldb;
     USE mysqldb;
     SHOW TABLES;
     SHOW DATABASES;
  2. CREATE TABLE Orders (OrderID int, Amount float, Customer_Name varchar(30), Purchase_Date date, State varchar(20), Address varchar(100));
  3. SELECT * FROM Orders;
  4. DROP TABLE Orders;
  5. ALTER TABLE Orders
     ADD Country varchar(15);
     ALTER TABLE Orders
     DROP Address;
  6. INSERT INTO Orders
     VALUES (100,246.1,'Amanda','2022-10-12','New Jersey', 'USA');
     INSERT INTO Orders
     VALUES (200, 11.99, 'Tom', '2022-09-27', 'Chicago', 'USA');
     INSERT INTO Orders
     VALUES (300, 74.03, 'Natalie', '2022-10-12', 'New Jersey', 'USA');
     INSERT INTO Orders
     VALUES (400, 50.67, 'Natalie', '2022-11-07', 'Pennsylvania', 'USA');
     INSERT INTO Orders
     VALUES (500, 115.76, 'Michael', '2022-08-13', 'Sydney', 'AU');

- Table level:
  1. SELECT * FROM Orders;
  2. SELECT OrderID, Country
     FROM Orders;
  3. SELECT DISTINCT Country
     FROM Orders;
  4. SELECT DISTINCT Country, OrderID
     FROM Orders;
  5. SELECT COUNT(DISTINCT Country) AS Total
     FROM Orders;
  6. SELECT Customer_Name, OrderID
     FROM Orders
     WHERE Amount > 100;

     SELECT *
     FROM Orders
     WHERE Amount > 100;

```
SELECT *
FROM Orders
WHERE Purchase_Date BETWEEN STR_TO_DATE('2022-10-01', '%Y-%m-%d') AND
STR_TO_DATE('2022-11-31', '%Y-%m-%d');

SELECT *
FROM Orders
WHERE OrderID IN (100, 200, 500);

SELECT *
FROM Orders
WHERE OrderID IN (100, 200, 500) AND Country = 'USA';

SELECT *
FROM Orders
WHERE OrderID IN (100, 200, 500) AND NOT Country = 'USA';

SELECT *
FROM Orders
WHERE OrderID IN (100, 200, 500) OR State = 'New Jersey';

SELECT *
FROM Orders
WHERE OrderID IN (100, 200, 500) AND NOT Country = 'USA';
```

7. ```
   SELECT *
   FROM Orders
   WHERE OrderID IN (100, 200, 500) OR State = 'New Jersey'
   ORDER BY Purchase_Date;

   SELECT *
   FROM Orders
   WHERE OrderID IN (100, 200, 500) OR State = 'New Jersey'
   ORDER BY Purchase_Date, Customer_Name DESC;
   ```

8. ```
   UPDATE Orders
   SET State = 'New York', Amount = 146.23
   WHERE Customer_Name = 'Natalie' AND OrderID = 300;
   ```
9. ```
   SELECT * FROM Orders
   ORDER BY Amount DESC
   LIMIT 3;
   ```
10. ```
    SELECT State, SUM(Amount) AS Total_Sales FROM Orders
    GROUP BY State;
    ```
11. ```
    SELECT State, SUM(Amount) AS Total_Sales FROM Orders
    ```
    ```

```
GROUP BY State
HAVING SUM(Amount) < 200;

SELECT State, SUM(Amount) AS Total_Sales FROM Orders
GROUP BY State
HAVING Total_Sales< 200;
```

12. WHERE vs HAVING
13.
```
DELETE FROM Orders
WHERE State = 'Pennsylvania';

DELETE FROM Orders;
```

MongoDB Command Guide:

- Database level:
  1. db #shows active database
  2. show dbs # shows all databases in the connection
  3. use mymongodb # creates database
  4. show dbs # empty since mymongodb is empty
  5. show collections
  6.
```
db.createCollection('people')
show dbs
show collections
```
  7. db.getCollection('people').drop()
  8. dp.dropDatabase()
  9. db.help
- Collection level:
  1. Create:
```
db.people.insertOne({'name': 'pratiksha', 'ann_salary': 30000, 'state': 'NJ'})
db.people.insertMany([{'name': 'pratiksha', 'ann_salary': 30000}, {'name': 'ameesha',
'ann_salary': 32000, 'age': 36, 'state': 'NJ'}, {'name': 'bhavna', 'ann_salary': 36000,
'age': 23, 'state': 'PA'}, {'name': 'bhavna', 'ann_salary': 46000, 'age': 33, 'state': 'PA'}])
```
  2. Read:
```
db.people.find()
db.people.find({'name': 'ameesha'})
db.people.find({'name': 'bhavna', 'age': 23})
db.people.find({'$or': [{'state': 'NJ'}, {'state': 'PA'}]})
db.people.find({'ann_salary': {'$lt': 31000}}, {'name': 1, 'state': 1})
db.people.find({'ann_salary': {'$lt': 51000}}, {'name': 1, 'state': 1})
db.people.find({'ann_salary': {'$lt': 51000}}, {'name': 1, 'state': 1}).limit(2)
```
  3. Update:
```
db.people.updateMany({'state':'NJ'},{'$set': {'ann_salary': '10000'}})
db.people.find()
db.people.updateOne({'state':'PA'},{'$set': {'ann_salary': '50000'}})
```

db.people.find()

4. Delete:
   db.people.deleteOne({'state':'PA'})
   db.people.find()
   db.people.deleteMany({'ann_salary':{ '$gt': 40000} })
   db.people.find()