1. **SELECT Statement**
   Format of a SELECT statement

```
SELECT [columname] FROM [TABLENAME] WHERE [COLUMN-NAME] OPERATOR VALUE


SELECT Firstname FROM `100l` WHERE Hostel = 'Adegunwa'
SELECT FIrstname FROM `100 L` WHERE Religion = "ISLAM"
```

returns the matric number of students whose hostel is Adegunwa

```
SELECT matric_number FROM `100 level` WHERE Hostel='Adegunwa'
```

For selecting and returning all column names from the table

```
SELECT * FROM [tablename] WHERE [CRiteria]
```

2. **DISTINCT**

Returns only all the unique values in a specified field

```
SELECT DISTINCT [columnname] FROM [tablename]
```

3. **ORDER BY**

```
SELECT Firstname, Lastname, Roomnumber FROM `100 Level` ORDER BY Roomnumber;


For Descending order we write DESC
For example if we want to return all columns but sorted by Descending matric
number
SELECT * FROM `100 level` ORDER BY MatricNumber DESC;
```

4. **AND and OR**

```
SELECT * FROM `100 level` WHERE Hostel = "Adegunwa" AND RoomName= "A2"
```

```
OR means either one of our condition is true
```

```
SELECT * FROM `100 level` WHERE Hostel_Name = "Adegunwa" OR Hostel_Name =
"LUXURY";
```

Practice Question, Write an SQL Query which

1. Returns only the matric numbers of students who lives in adegunwa and lives in room 108

```sql
SELECT MatricNUmber FROM `100 level` WHERE Hostel = "Adegunwa" AND ROOM = "108"
```

2. Returns the last name, first name, matric number of students but are ordered by their matric number in a descending order

```sql
SELECT Lastname,FirstName,MatricNumber FROM `100 level` ORDER BY MatricNumber DESC;
```

3. Return all the columns for students who are male and are in luxury hostel

```sql
SELECT * FROM `100 level` WHERE Gender ="Male" AND Hostel = "Luxury"
```

5. **INSERT**
   To insert a new record into the table

```sql
INSERT INTO [tablename] (fieldname1,fieldname2) VALUES (valuefor1, valuefor2);


INSERT INTO `100 level`(`Matric_Number`, `First_Name`, `Last_Name`, `DOB`, `Gender`) VALUES ('FUO/22/0332','Roqeeb','Lawal','19/20/2009','Male')
```

A new record is now added to our table

Matric Number	First Name	Last Name	DOB	Gender
FUO/22/0332	Roqeed	Lawal	19/20/2009	Male

6. **UPDATE**
   To Update a record to change the values of some fields

```sql
UPDATE [tablename] SET [fieldname] = 'newvalue', [fieldname2] = 'newvalue2' WHERE [Crieteria of selection]

UPDATE `lecturers table` SET `Firstname`='James',`Secondname`='Ali',`Course`='Microbiology',`phonenumber`='23 2323332' WHERE Firstname = "James";
```

Firstname	Secondname	Course	Phonenumber
James	Aliyu	Computer Science	2121221212

Changes to

Firstname	Secondname	Course	Phonenumber
James	Ali	Microbiology	232323332

7. **DELETE**
   Delete a record from the table

```
DELETE FROM [tablename] WHERE [condition]

DELETE FROM `100 level` WHERE MatricNumber = "FUO/22/0678"
Deletes the record with the matric number fuo/22/0678 from the table
```