```
//Class-1
    Setting Up Environment and Installations
    //Class-2
    SHOW DATABASES;
   USE {databasename};
   SHOW TABLES;
   CREATE DATABASE {databasename};
   CREATE TABLE Persons (
        PersonID int,
        LastName varchar(255),
        FirstName varchar(255),
        Address varchar(255),
        City varchar(255)
    );
    INSERT INTO Customers
(CustomerName, ContactName, Address, City, PostalCode, Country) VALUES('Cardinal', 'Tom
B. Erichsen''Skagen 21', 'Stavanger','4006','Norway');
    //Class-3
   ALTER TABLE Customers
    ADD COLUMN Email varchar(255);
   ALTER TABLE Customers
   DROP COLUMN Email;
   ALTER TABLE {table_name}
   RENAME COLUMN {old_name} to {new_name};
   ALTER TABLE {table_name}
   MODIFY COLUMN {column_name} {datatype};
   SELECT * FROM Customers LIMIT 3;
   SELECT Name as FIRST_NAME from Customers;
    SELECT * FROM Customers ORDER BY Country DESC;
    SELECT * FROM Customers ORDER BY Country ASC;
    SELECT * FROM Customers WHERE age>=20;
    SELECT * FROM Customers WHERE age!=20;
    SELECT * FROM Customers WHERE name LIKE 'a%';(%-matches any number of
characters)
    SELECT * FROM Customers WHERE name LIKE '_b%';(_-matches one character)
    SQL is Case-Insensitive;
    SELECT * FROM Customers WHERE length(name)=5;
   SELECT concat(id, name) from CUSTOMER;
   SELECT substring(name, 2, 5) from CUSTOMER;
    SELECT upper(name) from CUSTOMER;
    SELECT lower(name) from CUSTOMER;
    SELECT * from Customers where substring(name, 4, 1) = 'h';
    SELECT * from Customers where upper(substring(name,1,1))=substring(name,1,1);
```

```
SELECT * from Customers where binary name="Sachin";
   SELECT reverse(name) from Customers;
    SELECT replace(name, 'i', 'y') from Customers;
    SELECT * from Customers where name like'%a%a%' and notlike '%a%a%a';
    SELECT * from Customers where length(name)-length(replace(name,a,''))=2;
    //Class-4
    SELECT count(player_id) from Cricket;
    SELECT count(distinct player_id) from Cricket;
    SELECT sum(player_id) from Cricket;
    SELECT avg(player_id) from Cricket;
    SELECT max(player_id) from Cricket;
    SELECT min(player_id) from Cricket;
   SELECT max(highest_score) from Player_info;
    //2nd highest_score
    SELECT * from Player_info where highest_score=(SELECT max(highest_score) from
Player_info where highest_score not in(SELECT max(highest_score) from
Player_info));
    SELECT highest score from Player info ORDER BY highest score DESC LIMIT
1,1;//Second highest_score
    //Class-5
    SELECT employees.name,departments.name FROM employees INNER JOIN departments ON
employees.department_id=departments.id;
    SELECT employees.name,departments.name FROM employees LEFT JOIN departments ON
employees.department_id=departments.id;
    SELECT employees.name, departments.name FROM employees RIGHT JOIN departments ON
employees.department_id=departments.id;
    SELECT employees.name, departments.name FROM employees LEFT JOIN departments ON
employees.department_id=departments.id
   UNION
    SELECT employees.name,departments.name FROM employees RIGHT JOIN departments ON
employees.department id=departments.id;
    //Chaining
    SELECT * FROM Customers LEFT JOIN orders ON Customers.id=orders.Customer_id
LEFT JOIN order_items ON order.id=order_items.order_id;
```