MySql Assignments

1.**Query optimization -**

The Query optimizer is used to make the query more

efficient which can execute in less time

For Example - we have a table state in our database and we want to print all the data so rather than using (\*) ,we will write the names of all coloumns ,which will decrease the execution time

a) SELECT \* FROM state

b) SELECT id,name FROM state

Using of b part is more efficient

**2.Multi-level inner join –**

Joining of two or more tables

Query for joining three tables-

When we have three tables that is table1,table2&table3

**SELECT \***

**FROM student AS s**

**INNER JOIN**

**exam AS e**

**ON s.id = e.studentid**

**INNER JOIN**

**result AS r**

**ON e.studentid = r.examid**

**4.There is a MYSQL table containing cities of India with states. Write a function to:-**

a. Return a list of states in descending order of number of cities in the state

Query –

**SELECT s.name AS state\_name, COUNT(s.id) AS no\_of\_city FROM state s**

**INNER JOIN city ct ON (ct.state\_id = s.id)**

**GROUP BY s.id ORDER BY no\_of\_city DESC**

b. Returns a list of cities & there states in alphabetical order of name of state

Query –

**SELECT s.name AS state\_name, ct.name AS city\_name FROM state s**

**INNER JOIN city ct ON (ct.state\_id = s.id)**

**ORDER BY state\_name ASC**