**Question 1:**

1. Create tables
   1. Make a student table
   2. Make a Library table
   3. Make a Fees table

Create table with proper relations.

**Answer to the question no.** 1:

a)

CREATE TABLE student(

student\_roll INT PRIMARY KEY,

Name VARCHAR(50),

Class INT,

Section VARCHAR(50)

);

b)

CREATE TABLE Library(

book\_id INT PRIMARY KEY,

book\_title VARCHAR(199),

book\_author VARCHAR(100),

student\_roll INT,

FOREIGN KEY (student\_roll) REFERENCES student(student\_roll)

);

c)

CREATE TABLE Fees(

fee\_id INT PRIMARY KEY,

fee\_amount INT,

student\_roll INT,

FOREIGN KEY (student\_roll) REFERENCES student(student\_roll)

);

**Question 2:**

Add proper constraints with the No 1 question

* Added successfully to question no. 1.

**Question 3:**

Write the differences between data and information

**Answer to the question no.** 3:

Here is the differences between data and information in below:

|  |  |
| --- | --- |
| Data | Information |
| 1)Data is kind of value or meaning of anything that represent anything. We do not understand more about the thing. | 1)Information is the detailed information of a thing which must be organized so that we can understand further details about that specific thing. |
| 2)Data is not much more useful without information. | 2)Information is enough useful to do any operation or task. |
| 3)Data does not depends on information. Because we can collect data by ourselves. | 3)But an information depends on data. |
| 4) Data is basically a collection of number, character or numerical types. | 4)Information is basically a description of that specific things. |
| 5)Data is a kind of input. | 5) Information is a kind of output. |

**Question 4:**

In MySQL, Update and Delete query wasn’t executing, what was the reason and how to run those query? Write the code to enable the feature. (If you followed the class, you should know this).

**Answer to the question no.** 4:

According to the module we observed that when hour teacher tried to execute Update and delete query on mysql database that wasn’t executing. The main reason behind it was there was a command we needed to enable first and the command was:

SET SQL\_SAFE\_UPDATES = 0; and another is   
SET SQL\_SAFE\_UPDATES = 1;

Here in the above command use before we want to update or delete any information. Without giving those command terminal shows an error because from builtin our MySQL database enables the SQL SAFE UPDATES mode. So that whe we set sql\_safe\_updates = 0 it turn off and now we can update or delete our data and information from our database table. After updating successfully we change the command and make it enable so that it turn on now. The great benefit of using this for security purpose. Using this command we can unlock our feature and can cover our needs.

**Question 5:**

Write a query to show the distinct department names

**Answer to the question no.** 5:

SELECT DISTINCT Department

FROM Employee;

**Question 6:**

Write a query to show the LastNames of the employees sorted by descending ages

**Answer to the question no.** 6:

SELECT LastName

FROM Employee

ORDER BY Age DESC;

**Question 7:**

Write a query to show the employee LastName whose age is greater than 30 and works in Marketing department.

**Answer to the question no.** 7:

SELECT LastName

FROM Employee

WHERE Age > 30 AND Department = ‘Marketing’;

**Question 8:**

Write a query to select all the employees

**Answer to the question no.** 8:

SELECT \*  
FROM Employee;

**Question 9:**

Write a query to get employees whose names includes ‘son’

**Answer to the question no.** 9:

SELECT \*  
FROM Employee  
WHERE FirstName LIKE ‘%son%’ OR LastName LIKE ‘%son%’

**Question 10:**

Write a query to get the engineers

**Answer to the question no.** 10:

SELECT \*

FROM Employee

WHERE Department = ‘Engineering’;