# **Answer Script**

# Question No. 1

#### Create tables

- a. Make a student table
- b. Make a Library table
- c. Make a Fees table

Create table with proper relations.

#### Answer No. 1

```
a.
   CREATE TABLE student(
         Id CHAR(4),
         Name VARCHAR(50),
         Email VARCHAR(50),
         Address VARCHAR(255),
         Age INT
  );
b.
   CREATE TABLE library(
         BookName VARCHAR(50),
         BookId CHAR(5),
         StudentId CHAR(4)
  );
c.
   CREATE TABLE fees (
       TrxlId CHAR(16),
       StudentId CHAR(4),
       Amount INT,
       PaymentDate DATE
   );
```

Add proper constraints with the No 1 question

#### Answer No. 2

```
a.
   CREATE TABLE student(
         Id CHAR(4) PRIMARY KEY,
         Name VARCHAR(50) NOT NULL,
         Email VARCHAR(50) UNIQUE,
         Address VARCHAR(255),
         Age INT CHECK(Age>=10)
   );
b.
   CREATE TABLE library(
         BookName VARCHAR(50),
         BookId CHAR(5) PRIMARY KEY,
         StudentId CHAR(4),
         FOREIGN KEY (StudentId) REFERENCES student(Id)
   );
c.
   CREATE TABLE fees (
       TrxlId CHAR(16) PRIMARY KEY,
       StudentId CHAR(4),
       Amount INT,
       PaymentDate DATE,
       FOREIGN KEY (StudentId) REFERENCES student(Id)
   );
```

Write the differences between data and information

#### Answer No. 3

Data	Information	
Unorganized	Organized	
Meaningless	Meaningful	
Unstructured	Structured	

# Question No. 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.

### Answer No. 4

MySql has by default a safety feature enabled to prevent unintentional data modification . That is why the Update and Delete query wasn't executing.

In Order to run those query, execute SET SQL SAFE UPDATES = 0;

In doing so you are essentially turning off this safety feature

You can turn this safety feature on by executing SET SQL SAFE UPDATES = 1;

Answer the following questions(5-10) with this table data. Table name Employee.

EmployeeID	FirstName	LastNam	ie   Age	Department
1	John	Doe	28	Sales
2	Jane	Smith	32	Marketing
3	Michael	Johnson	35	Finance
4	Sarah	Brown	30	HR
5	William	Davis	25	Engineering
6	Emily	Wilson	28	Sales
7	Robert	Lee	33	Marketing
8	Laura	Hall	29	Finance
9	Thomas	White	31	HR
10	Olivia	Clark	27	Engineering

CREATE DATABASE assignmentone;

USE assignmentone;

CREATE TABLE employee(

EmployeeID CHAR(4) PRIMARY KEY,

FirstName VARCHAR(25),

LastName VARCHAR(25) NOT NULL,

Age INT,

Department VARCHAR(20) NOT NULL

);

# Question No. 5

Write a query to show the distinct department names

# Answer No. 5

SELECT DISTINCT Department

FROM employee;

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

#### Answer No. 6

SELECT LastName FROM employee ORDER BY Age DESC;

## Question No. 7

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

### Answer No. 7

SELECT LastName

FROM employee

WHERE (Age>30) AND (Department='Marketing');

# Question No. 8

Write a query to select all the employees

### Answer No. 8

SELECT \* FROM employee;

Write a query to get employees whose names includes 'son'

# Answer No. 9

SELECT \*

FROM employee

WHERE (FirstName LIKE '%son%') OR (LastName LIKE '%son%');

# Question No. 10

Write a query to get the engineers

# Answer No. 10

SELECT \*

FROM employee

WHERE Department='Engineering';