1. Creating Database Table

a. Creating Table Manager

CREATE TABLE Manager (ManagerID Int NOT NUll AUTO_INCREMENT PRIMARY KEY, Manage rName varchar (255) NOT NULL);

b. Creating Table Department

CREATE TABLE Department(DeptID Int NOT NULL AUTO_INCREMENT PRIMARY KEY, DeptNa me varchar (255) NOT NULL, DeptCode varchar (100) Null, ParentDeptID Int NOT NULL, ManagerId Int NOT NULL, Description Text NOT NULL, Active BOOLEAN NOT NULL, CONSTRAINT FK Manager FOREIGN KEY (ManagerId) REFERENCES manager (ManagerId));

c. Creating Table Employee

CREATE TABLE Employee (EmployeeID Int NOT NULL AUTO_INCREMENT PRIMARY KEY, Fi rstName varchar(255) NOT NULL, MiddleName varchar(255) NULL, LastName varchar (255) NOT NULL, JoinDATE datetime NULL, MonthlySalary decimal(10, 5) NULL, DeptID Int NOT NULL, CONSTRAINT FK_Dept FOREIGN KEY (DeptID) REFERENCES department(DeptID));

2. Insert Data into Table

a. Table Manager

INSERT INTO manager(ManagerID, ManagerName) VALUES(1, 'Shyam Shreatha'), (2, 'Hari
Karki'), (3, 'Rajesh Hamal'), (4, 'Ajay Lama');

b. Table Department

```
INSERT INTO `department` (DeptID, DeptName, DeptCode, ParentDeptID, ManagerId, Desc
ription, Active) VALUES(1, 'Sales', '01', 1, 1, 'Sales
Department', 1), (2, 'Marketing', '02', 2, 2, 'Marketing
Department', 1), (3, 'Designing', '03', 3, 3, 'Designing Department', 1);
```

c. Table Employee

```
INSERT INTO employee(EmployeeID, FirstName, LastName, JoinDATE, MonthlySalary, Dep
tID) VALUES(1, 'Aashish', 'Thapa', '2022-01-18

11:34:26.689553', 70000.00,1), (2, 'Ashok', 'Thapa', '2022-04-10

11:34:26.689553', 50000.0,2), (3, 'Sandesh', 'Baral', '2021-01-18

11:34:26.689553', 90000,1), (4, 'Rahul', 'singh', '2022-06-18

11:34:26.689553', 40000,3), (5, 'Himal', 'Rana', '2022-06-18

11:34:26.689553', 880000,1), (6, 'Suman', 'Nepal', '2022-06-18

11:34:26.689553', 80000,2), (7, 'Adhikar', 'Chaudhary', '2022-06-18

11:34:26.689553', 50000,2), (8, 'Bijay', 'Rajali', '2022-06-18

11:34:26.689553', 60000,3);
```

Questions & Answers

Write a Single Query to find the Total Earnings by Employees grouped by Departments.
 SELECT DeptID, SUM (MonthlySalary) AS "Total Salary" FROM employee group by deptID;

Showing rows 0 - 2 (3 total, Query took 0.0014 seconds.) SELECT DeptID, SUM(MonthlySalary) AS "Total Salary" FROM employee group by deptID; □ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh] ☐ Show all Number of rows: 25 ✓ Filter rows: Search this table Extra options ▼ DeptID Total Salary 1 259999.99999 2 180000.00000 3 100000.00000 **≩** € Copy ↑ Check all With selected: Ø Edit Delete Export

 Write a Single Query to find the list of Employees belonging to Department Sales, with service length of more than 6 months.



Write a Single Query to list Employees with their Department Name and their Manager Name.

