Task 1

Creating Database Task

```
show databases;
```

Create table Department and Employee according to Question

For Department

```
5 ● ⊖ create table Department(DeptID int primary key Not null, DeptName varchar(50) Not null, DeptCode varchar(50),
      ManagerID int, ManagerName varchar(50), Descriptionn text, Activee boolean);
  Result Grid
                    Filter Rows:
                                                                   Wrap Cell Content: $\overline{\pmathbb{I}}$
      Field
                                                      Default
                                                                Extra
                       Type
                                      Null
                                              Key
                                                     NULL
     DeptID
                                     NO
                                             PRI
                                                     NULL
     DeptName
                      varchar(50)
                                     NO
                                                     NULL
     DeptCode
                       varchar(50)
                                     YES
                                                     NULL
                                     YES
     ManagerID
                                                     NULL
                      varchar(50)
     ManagerName
                                     YES
                                                     NULL
                       text
                                     YES
     Descriptionn
                                                     NULL
      Activee
                       tinyint(1)
                                     YES
```

Inserting Values

102

103

104

105

NULL

Marketing

Account

NULL

Reception

M01

I01

A01

R01

NULL

NULL

```
insert into Department value(101, 'Sales', 'S01', 1, 'John', 'Deals with sales and other stuffs', true );
10 •
       insert into Department value(102, 'Marketing', 'M01', 1, 'Ned', 'Deals with marketing and other stuffs', false );
       insert into Department value(103, 'It', 'I01', 1, 'Sansa', 'They are cool guys', true );
       insert into Department value(104, 'Account', 'A01', 1, 'Bran', 'Deals with accounts and other stuffs', true );
       insert into Department value(105, 'Reception', 'R01', 1, 'Arya', 'Dealing with client and customers', true );
14 •
15
                                                   Edit: 🍊 🖶 🖶 Export/Import: 📺
Result Grid
                                                                                                   Wrap Cell Content: 1/
                  Filter Rows:
                                                   ManagerName
    DeptID
             DeptName
                          DeptCode
                                      ManagerID
                                                                   Descriptionn
                                                                                                        Activee
             Sales
                         S01
                                                   John
                                                                   Deals with sales and other stuffs
```

Ned

Sansa

Bran

Arya

NULL

Deals with marketing and other stuffs

Deals with accounts and other stuffs

Dealing with client and customers

They are cool guys

0

1

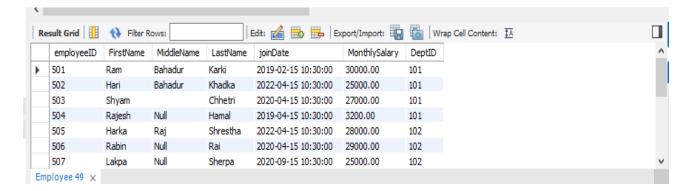
NULL

For Employee

```
18 • ⊖ create table Employee(employeeID int primary key not null, FirstName varchar(50) not null,
        MiddleName varchar(50) not null, LastName varchar(50) not null, joinDate datetime, MonthlySalary decimal(6,2),
19
20
        DeptID int not null, foreign key (DeptID) references Department(DeptID));
21
       alter table Employee modify MiddleName varchar(50);
22 •
23 •
       alter table Employee modify MonthlySalary decimal(7,2);
   Result Grid
                                                                  Wrap Cell Content: TA
                     Filter Rows:
                                                     Export:
       Field
                                                                Extra
                        Type
                                      Null
                                              Key
                                                      Default
                                                     NULL
      employeeID
                       int
                                      NO
                                             PRI
                                                     NULL
      FirstName
                       varchar(50)
                                      NO
                                                     NULL
      MiddleName
                       varchar(50)
                                      YES
                                                     NULL
      LastName
                       varchar(50)
                                      NO
                                                     NULL
      ioinDate
                       datetime
                                      YES
                                                     NULL
                       decimal(7,2)
      MonthlySalary
                                      YES
                                                     NULL
      DeptID
                                             MUL
```

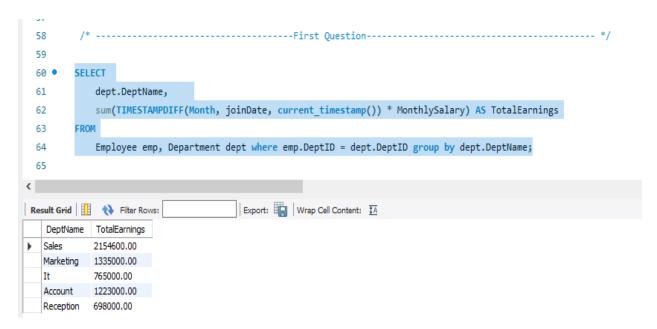
Inserting Values

```
9 • insert into Employee values(501, 'Ram', 'Bahadur', 'Karki', '2019-02-15 10:30:00', 30000.00, 101);
0 • insert into Employee values(502, 'Hari', 'Bahadur', 'Khadka', '2022-04-15 10:30:00', 25000.00, 101);
1 • insert into Employee values(503, 'Shyam', '', 'Chhetri', '2020-04-15 10:30:00', 27000.00, 101);
2 • insert into Employee values(517, 'Suraj', 'Raj', 'Pandey', '2022-03-15 9:30:00', 27000.00, 101);
3 • insert into Employee values(504, 'Rajesh', 'Null', 'Hamal', '2019-04-15 10:30:00', 3200.00, 101);
4
5 • insert into Employee values(505, 'Harka', 'Raj', 'Shrestha', '2022-04-15 10:30:00', 28000.00, 102);
6 • insert into Employee values(506, 'Rabin', 'Null', 'Rai', '2020-04-15 10:30:00', 29000.00, 102);
7 • insert into Employee values(507, 'Lakpa', 'Null', 'Sherpa', '2020-09-15 10:30:00', 25000.00, 102);
```

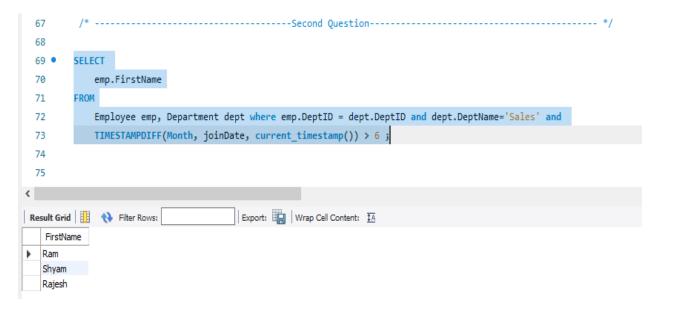


Query Question

 Write a Single Query to find the Total Earnings by Employees grouped by Departments.



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



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

