

assignment3aa

— Table: Department

```
CREATE TABLE Department (
  Dno NUMBER(4) PRIMARY KEY,
  Dname VARCHAR2(10) NOT NULL
);
```

— Table: Employee

```
CREATE TABLE Employee (
  Eno VARCHAR2(5) CONSTRAINT pk_Employee_Eno PRIMARY KEY
CHECK (Eno NOT LIKE 'e%'),
  Ename VARCHAR2(10) NOT NULL,
  Salary NUMBER(7,2) CHECK (Salary >= 5000 AND Salary <= 30000),
  Join_date DATE,
  Birth_date DATE,
  Dno NUMBER(4),
  Address VARCHAR2(20),
  Manager_id VARCHAR2(5) CHECK (Manager_id NOT LIKE 'e%'),
  CONSTRAINT fk_Employee_Dno FOREIGN KEY(Dno) REFERENCES
Department(Dno)
);
```

```
INSERT INTO Department VALUES (101, 'HR');
```

```
INSERT INTO Department VALUES (102, 'IT');
```

```
select * from Department;
```

```
INSERT INTO Employee
```

```
VALUES ('10001', 'John Doe', 20000, TO_DATE('2023-01-15', 'YYYY-MM-DD'),
TO_DATE('1990-05-20', 'YYYY-MM-DD'), 101, '123Main St', null);
```

```
INSERT INTO Employee
```

```
VALUES ('10002', 'Jane Smith', 25000, TO_DATE('2022-11-10', 'YYYY-MM-
DD'), TO_DATE('1992-08-07', 'YYYY-MM-DD'), 102, '456Elm St', '10001');
```

```
INSERT INTO Employee
```

```
VALUES ('10003', 'Jill Smith', 15000, TO_DATE('2020-08-16', 'YYYY-MM-DD'),
TO_DATE('1991-08-30', 'YYYY-MM-DD'), 102, '456Mlm St', '10001');
```

```
select * from Employee;
```

–a) Find the number of employees in each department with department name:

```
SELECT Department.Dname, COUNT(Employee.Eno) AS EmployeeCount
FROM Department
LEFT JOIN Employee ON Department.Dno = Employee.Dno
GROUP BY Department.Dname;
```

–b) Find the employees who earn the highest salary in each department:

```
SELECT D.Dname, E.Ename, E.Salary
FROM Employee E
```



