RK UNIVERSITY

School Of Engineering

CIE-I

MCA Semester – I

Subject Name: Relational Database Management System Subject code: MCAL123 Time: 1 Hour & 30 Minutes

Date: 09/10/2023

- Q- 1 Create table employees for following fields.

(Note: Use sequence and auto-increment employee_id) (Add 10 Records.)

(employee_id,
first_name,
last_name,
email,
phone_number,
salary,
department_id,
department_name)

1. Write a Oracle SQL query to get the total number of employees working in the company. 2. Write a Oracle SQL query to get the total salary being paid to all employees. 3. Write a Oracle SQL query to get the maximum and minimum salary from the employees table. 4. Write a Oracle SQL query to display the name of the employees in order to earning from lowest salary to highest.

5. Write a Oracle SQL query to display the name of the employees in order to earning from highest salary to lowest.

6. Write a Oracle SQL query to display the name of the employees in order to alphabetically ascending order.

7. Write a Oracle SQL query to display department id and total number of employees working in each department.

Code:

```
create table employees (
 employee_id int primary key,
 first_name varchar(200) not null unique,
 last_name varchar(200) not null,
 email varchar(200) not null,
 phone_number varchar(10) not null,
 salary number(10) not null,
 department_id int,
 department_name varchar(200) not null);
```

Insert quert:

1. insert into employee values(1, 'Demo', 'last1', 'e1@gmail.com', '8348848344', 49999, 101, 'Manager');
2. insert into employee values(2, 'Demo2', 'last2', 'e2@gmail.com', '9443434344', 50000, 201, 'Manager');
3. insert into employee values(3, 'Demo3', 'last3', 'e3@gmail.com', '8354545455', 20000, 301, 'Sales');
4. insert into employee values(4, 'Demo4', 'last1', 'e1@gmail.com', '8348848344',30000, 101, 'Manager');
5. insert into employee values(5, 'Demo5', 'last1', 'e1@gmail.com', '8348848344',90000, 101, 'Manager');
6. insert into employee values(6, 'Demo6', 'last1', 'e1@gmail.com', '8348848344', 40000, 101, 'Manager');

7. insert into employee values(7, 'Demo7', 'last1', 'e1@gmail.com', '8348848344', 35500, 101, 'Manager');
8. insert into employee values(8, 'Demo8', 'last1', 'e1@gmail.com', '8348848344',30000, 101, 'Manager');
9. insert into employee values(9, 'Demo9', 'last1', 'e1@gmail.com', '8348848344', 24000, 101, 'Manager');
10. insert into employee values(10, 'Demo10', 'last1', 'e1@gmail.com', '8348848344',95500, 101, 'Manager');

Q1. select count(employee_id) from employees;

Q2. select sum(salary) from employees;

Q3. select Max(salary), Min(salary), Avg(salary) from employees;

Q4. select * from employees where salary in ASC;

Q5. select * from employees where salary in DESC;

Q6. select * from employees where name in ASC;

Q7. select department_id, Distinct(count(Department_name)) from employees.

Q- 2 Create the following table and perform the queries given below.

(Note: Use sequence and auto-increment emp_id) (Add 10 Records.)

Table – EmployeeDetails

EmpId FullName ManagerId DateOfJoining City

Table – EmployeeSalary
Empid Project City Salary

1. Write an SQL query to fetch the EmpId and FullName of all the **employees working** under Manager with id – '9'.

2. Write an SQL query to fetch the different projects available from the EmployeeSalary table.

3. Write an SQL query to fetch the total of employees working in project 'P1'. 4. Write an SQL query to find the maximum, minimum, and average salary of the employees. 5. Write an SQL query to find the employee id whose salary lies in the range of 9000 and 15000.

6. Write an SQL query to fetch those employees who live in Toronto and work under manager with ManagerId – 3

7. Write an SQL query to **f**etch all the employees who either live in California or work under a manager with ManagerId – 2.

Code:

```
create table EmployeeDetails(
  empId int primary key,
  fullName varchar(200) not null unique,
  ManagerId int,
  dateOfJoining date not null,
  city varchar(200) not null);
```

```
create table Employeesalary(
  empId int primary key,
  project varchar(200) not null unique,
  city varchar(200) not null,
  salary number(10) not null
);
```

Employee Details Table:

```
insert into EmployeeDetails values(1, 'Demo1', 101, '10-02-2023', 'Rajkot');
insert into EmployeeDetails values(2, 'Demo2', 102, '11-02-2023', 'surat');
insert into EmployeeDetails values(3, 'Demo3', 103, '09-02-2023', 'Rajkot');
insert into EmployeeDetails values(4, 'Demo4', 104, '01-02-2023', 'surat');
insert into EmployeeDetails values(5, 'Demo5', 105, '10-02-2023', 'Rajkot');
insert into EmployeeDetails values(6, 'Demo6', 106, '10-02-2023', 'Rajkot');
insert into EmployeeDetails values(7, 'Demo7', 107, '10-02-2023', 'Amreli');
insert into EmployeeDetails values(8, 'Demo8', 108, '10-02-2023', 'Rajkot');
insert into EmployeeDetails values(9, 'Demo9', 109, '10-02-2023', 'Rajkot');
```

insert into EmployeeDetails values(10, 'Demo10', 110, '10-02-2023', 'Surat');

EmployeeSalary Table:

insert into EmployeeSalary values(1, 'Demo1','Rajkot', 10000);

insert into EmployeeSalary values(2, 'Demo2','surat', 20000);

insert into EmployeeSalary values(3, 'Demo3','Rajkot', 35500);

insert into EmployeeSalary values(4, 'Demo4','surat', 50000);

insert into EmployeeSalary values(5, 'Demo5','Rajkot', 53000);

insert into EmployeeSalary values(6, 'Demo6','Rajkot', 54000);

insert into EmployeeSalary values(7, 'Demo7','Amreli', 20000);

insert into EmployeeSalary values(8, 'Demo8','Rajkot', 40000);

insert into EmployeeSalary values(9, 'Demo9','Rajkot', 20000);

insert into EmployeeSalary values(10, 'Demo10','Surat', 40000);

Q1. select EmpId, fullName, from employeeDetails where ManagerId = 9;

Q2. select Distinct(project) from employeeSalary;

Q3. select count(empId) from employeeSalary where project = ‘p1’;

Q4. select Max(salary), Min(salary), Avg(salary) from employeeSalary;

Q5. select empId from employeeSalary where salary>9000 and salary <15000;

Q6. select * from employeeDetails where city = ‘Toronto’ and ManagerId = 3;

Q7. Select * from employeeDetails where city = ‘California’ or ManagerId = 2;

Q- 3 Write block to filter the data from table.

1) **Create view from employees (Q-1) select emp_id, first_name, last_name, and salary and fetch whose name is start with ‘S’;**
2) **Create view from employeesalary(Q-2) select emp_id, city, and salary and fetch employee who have salary > 30000 and city name start with ‘P’ .**