**Higher Diploma in Information Technology**

**Database Management Systems**

**Year 1 Semester 2 – 2020**

**Worksheet 04**

1. Consider the table ‘Employee’ we created in worksheet 03. Insert the new rows into the table.

Employee (Empno: integer, Empname: varchar (20), Job: varchar (20), Dno: integer, Salary: float)

**Employee**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Eno | Empname | Job | Dno | Salary |
| 100 | Nimal | HR assistant | 1 | 25000 |
| 101 | Gamini | IT Manager | 2 | 80000 |
| 102 | Supipi | Software Engineer | 2 | 60000 |
| 110 | Dev | Project Manager | 2 | 85000 |
| 121 | Sahani | Admin Manager | 1 | 70000 |
| 107 | Dev | Software Engineer | 2 | 68000 |
| 108 | Anuki | Finance Manager | 3 | 70000 |
| 114 | Supipi | Software Engineer | 2 | 42000 |
| 122 | Janani | Finance Executive | 3 | 32000 |
| 124 | Danuki | Finance Executive | 3 | 32000 |
| 125 | Methmi | Admin Support | 1 | 22000 |
| 127 | Malik | Research Assistant | 4 | 56000 |
| 134 | Chathuri | Software Engineer | 3 | 56000 |

1. Answer the following questions.

**Section A**

1. How many unique jobs are there in the employee table?
2. List the employee number and the name. Sort the output in the ascending order of employee name.
3. List all employees whose name start with a letter between C and M. Sort the output in the descending order of employee name.
4. List the Job and salary of all the employees. Sort the output in descending order of Job and ascending order of salary.

**Section B**

1. List the department number and the number of employees from each department.
2. List the department number and the number of employees from each department. Sort the output according to the number of employees in the ascending order.
3. List the department number and the number of employees from each department. List only the department with more than 2 employees. Sort the output according to the number of employees in the descending order.
4. List the department number and the highest salary of each department. Sort the output according to the highest salary in the descending order.
5. Display the department number and number of unique job types are in each department.
6. List the Job name and no of employees each job type. Sort the output according to the Job name in the descending order.
7. List the dno and the number of employees whose name start with a letter between C and S. Sort the output in the ascending order of number of employees.
8. List the dno and the number of employees whose name start with a letter between C and S. List only the department with more than 2 such employees. Sort the output in the ascending order of number of employees.