 **Higher Diploma in Information Technology**

**Database Management Systems**

**Year 1 Semester 2 – 2021**

**Worksheet 03 – Aggregate Functions**

1. Create the following table.

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

1. Insert following data into table.

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 |

1. Answer the following questions.

**Section A – Practice Questions for Worksheet 02**

1. List the employee name and their department number.
2. List the unique job roles in the table.
3. List all employees who are earning the salary more than 50000.
4. List the employees who are working as a Software Engineer.
5. List the employees whose name starts with the letter S and salary greater than 40000.
6. Select the employees whose name ends with the string ‘ni’.
7. List all the employees that have the letters ‘an’ in its name.
8. Select the employees whose name starts with the letter S and ends with the letter i and department number is 2.
9. List the employees where the name second character is the letter a.
10. List the employees whose name starts with A or D and empno is less than to 110.
11. Select the employees whose name does not start with S or N.
12. Select the employees whose name starts with a letter between A and G or job other than Engineer (whose job does not contain the word ‘Engineer’).

**Section B**

1. List employees whose employee number is equal to 101, 102 or 114.
2. Select emp name and department no of employees whose employee no is not equal to 105, 107 or 122.
3. List employees whose salary is between 40000 and 100000.
4. Select the employees who are Software Engineers and salary not between 50000 and 70000.

**Section C**

1. List the number of employees in the table.
2. Find and display the highest eno.
3. What is highest salary?
4. What is the smallest salary?
5. What is the average salary of an employee?
6. How many software engineers are there?
7. How many employees are working in the department no 2?
8. How many employees are getting a salary between 50000 and 100000?
9. How many employees are there whose name start with D, M or S.?
10. List the highest salary of a manager. (where job has the word ‘manager’).
11. What is the average salary of a software engineer? Round off the average salary to the two decimal places.
12. What is the total salary paid for employees working in the department no 3?