**NAME : MANGESH A. GHADWAJE**

**ROLL NO:24**

**BATCH : B2**

**COURSE: DBMS PRACTICAL**

**Assignment No. 4**

**Problem Statement :** Implement Group By, Having clause and Order by clause with suitable example. Students are advised to continue the schema used by them in the assignment No.1 (ER Diagram)

SQL DML statements

**a) Gruop By**

i)SELECT Blood\_Type AS Blood\_Group, COUNT(\*) AS DonorCount

FROM donor

GROUP BY Blood\_Type;

| Blood\_Group | DonorCount |

|-------------|------------|

| A+ | 25 |

| B+ | 30 |

| AB- | 15 |

| O+ | 20 |

| O- | 10 |

ii) SELECT H\_ID AS h\_id, COUNT(\*) AS Total\_Patients

FROM patient

GROUP BY H\_ID;

| h\_id | Total\_Patients |

|------|----------------|

| 1 | 25 |

| 2 | 30 |

| 3 | 15 |

| 4 | 20 |

**b) Having Clause**

i) SELECT BloodBank\_ID, SUM(Quantity) AS TotalBlood

FROM blood\_bank

GROUP BY BloodBank\_ID

HAVING SUM(Quantity) > 1000;

| BloodBank\_ID | TotalBlood |

|--------------|------------|

| 1 | 1500 |

| 3 | 2000 |

**c) Order By**

i) SELECT \*

FROM donor

ORDER BY Age DESC;

| Donor\_ID | Name | Age | Blood\_Type |

|----------|---------------------- -|-----|-------------------|

| 4 | Rajesh Kumar | 34 | AB- |

| 1 | Sanjay Sharma | 30 | A+ |

| 5 | Manish Gupta | 28 | O+ |

| 2 | Neha Patel | 21 | B- |

ii) SELECT \*

FROM patient

ORDER BY Blood\_Group ASC, Age DESC;

| Patient\_ID | Patient\_Name | Age | Blood\_Group |

|----------------|----------------------|------|---------------------|

| 1 | Ajay Patil | 40 | A+ |

| 4 | Akash Gore | 35 | A+ |

| 3 | Sachin Pandit | 50 | AB+ |

| 5 | Dhiraj Aher | 38 | AB+ |

| 2 | Vednat Bhosale| 30 | B- |