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**ROLL NO : 24**

**BATCH : B2**

**COURSE: DBMS PRACTICAL**

**Assignment No :4**

**Title : Implement Group By , Having Clause and Order by clause with suitable Example. Problem Statement:**

**Problem Statement:-**

**Create tables in ORACLE And implement group by , Having clause and order by clause.**

**EMPLOYEE(EMP\_id : integer, EMP\_name : string, EMP\_designation : string, EMP\_salary:**

**integer, EMP\_country:string)**

**PRODUCTS (PRODUCT\_id:integer, PRODUCT\_name:string, PRODUCT\_categoryid: integer, PRODUCT\_price:integer )**

**Solution :**

**CREATE TABLE EMPLOYEEE(**

**EMP\_ID int,**

**EMP\_NAME varchar(30),**

**EMP\_DESIGNATION varchar(30),**

**EMP\_SALARY int,**

**EMP\_COUNTRY varchar(30),**

**PRIMARY KEY(EMP\_ID)**

**);**

**DESC EMPLOYEEE;**

**SELECT \* FROM EMPLOYEEE;**

**INSERT INTO EMPLOYEEE(EMP\_ID,EMP\_NAME ,EMP\_DESIGNATION ,EMP\_SALARY ,EMP\_COUNTRY) VALUES('101','Shashank','Web\_Developer','31000','India');**

**INSERT INTO EMPLOYEEE VALUES('102',' Om','Professor ','40000 ','Bhutan');**

**INSERT INTO EMPLOYEEE VALUES('103',' Rahul',' Trainee ','25000 ','London');**

**INSERT INTO EMPLOYEEE VALUES('104 ','Rakesh ','Sr.Engineer ','70000 ','India');**

**INSERT INTO EMPLOYEEE VALUES('105 ','Amruta ','Software Engineer ','40000 ','America');**

**INSERT INTO EMPLOYEEE VALUES('106 ','Sanika ','Developer ','35000 ','Bhutan');**

**INSERT INTO EMPLOYEEE VALUES('107 ','Mahesh ','Trainee ','21000 ','London');**

**INSERT INTO EMPLOYEEE VALUES('108 ','Geeta ','Teacher ','20000 ','America');**

**INSERT INTO EMPLOYEEE VALUES('109 ','Samarth ','Lawyer ','85000 ','India');**

**CREATE TABLE PRODUCTS(**

**PRODUCT\_ID INT,**

**PRODUCT\_NAME VARCHAR(30),**

**PRODUCT\_CATEGORYID INT,**

**PRODUCT\_PRICE INT,**

**PRIMARY KEY(PRODUCT\_ID)**

**);**

**DESC PRODUCTS;**

**INSERT INTO PRODUCTS(PRODUCT\_ID ,PRODUCT\_NAME ,PRODUCT\_CATEGORYID ,PRODUCT\_PRICE) VALUES('101 ','Dolo ','202 ','100');**

**INSERT INTO PRODUCTS VALUES('104 ','Dolo ','301 ','20');**

**INSERT INTO PRODUCTS VALUES('103 ','MeftalFort ','500 ','50');**

**INSERT INTO PRODUCTS VALUES('106 ','Lecope-AD ','655 ','40');**

**INSERT INTO PRODUCTS VALUES('105 ','Ketrol-DT ','453 ','90');**

**INSERT INTO PRODUCTS VALUES('108 ','Enzoflame ','678 ','22');**

**INSERT INTO PRODUCTS VALUES('109 ','Dolo ','301 ','10');**

**INSERT INTO PRODUCTS VALUES('108 ','Lecope-AD ','101 ','36');**

**SELECT \* FROM PRODUCTS;**

**A) PART : FROM PRODUCTS TABLE :**

**Q1.From product table - Using order by Keyword Sort the products by price.**

**SELECT \* FROM PRODUCTS ORDER BY PRODUCT\_PRICE ASC;**

**Q2. Sort the products by PRODUCT\_price in reverse order:**

**SELECT \* FROM PRODUCTS ORDER BY PRODUCT\_PRICE DESC;**

**Q3. Sort the products from highest to lowest price**

**SELECT \* FROM PRODUCTS ORDER BY PRODUCT\_PRICE DESC;**

**Q4. By Using group by clause Lists the number of products in each Product\_name**

**SELECT PRODUCT\_NAME, COUNT(\*) AS NUM\_PRODUCTS**

**FROM PRODUCTS**

**GROUP BY PRODUCT\_NAME;**

**Q5. By using having clause lists the number of products in each product\_name. Only include Product\_name with more than 2 Products:**

**SELECT PRODUCT\_NAME, COUNT(\*) AS NUM\_PRODUCTS**

**FROM PRODUCTS**

**GROUP BY PRODUCT\_NAME**

**HAVING COUNT(\*) > 2;**

**PART : FROM EMPLOYEEE TABLE :**

**Q1. From EMPLOYEE table - using order by keyword sort the Employees by Emp\_salary.**

**ascending order**

**SELECT \* FROM EMPLOYEEE**

**ORDER BY EMP\_SALARY ;**

**descending order**

**SELECT \* FROM EMPLOYEEE**

**ORDER BY EMP\_SALARY DESC;**

**Q2. Sort the Employees by EMP\_salary**

**SELECT \* FROM EMPLOYEEE**

**ORDER BY EMP\_SALARY ;**

**SELECT \* FROM EMPLOYEEE**

**ORDER BY EMP\_SALARY DESC;**

**Q3. Sort the Employees by EMP\_salary in reverse order**

**SELECT \* FROM EMPLOYEEE**

**ORDER BY EMP\_SALARY DESC;**

**Q4. By Using group by clause Lists the number of Employees in each EMP\_name**

**SELECT EMP\_NAME, COUNT(\*) AS EMPLOYEEE\_COUNT**

**FROM EMPLOYEEE**

**GROUP BY EMP\_NAME;**

**Q5. By using having clause lists the number of Employees in each EMP\_country. Only include EMP\_Country with more than 2 Employees:**

**SELECT EMP\_COUNTRY , COUNT(\*) AS EMPLOYEEE\_COUNT**

**FROM EMPLOYEEE**

**GROUP BY EMP\_COUNTRY**

**HAVING COUNT(\*) > 2;**