**MCA-B013 CHUDASAMA VISHAL**

SQL> -- **day-6.docx** file exercise

SQL> **-- Question-1 tables: APPLICANT, ENTRANCE\_TEST and ETEST\_DETAILS**

SQL> **-- 1. How many applicants have appeared for each test?**

SQL> **select etid, count(aid) from ETEST\_DETAILS group by (etid);**

ETID COUNT(AID)

---- ----------

T002 2

T005 2

T001 2

T003 2

T004 2

SQL> **-- 2. Display highest score for each test**

SQL> **select etid, max(score) from ETEST\_DETAILS group by (etid);**

ETID MAX(SCORE)

---- ----------

T002 70

T005 75

T001 90

T003 75

T004 95

SQL> **-- 3. Display applicant's ID who appeared for more than 3 tests**

SQL> **select aid, count(etid) from ETest\_Details group by (aid) HAVING count(etid)>3;**

AID COUNT(ETID)

---- -----------

A001 4

SQL> **-- 4. Calculate applicant's average score across all test they have appeared in**

SQL> **select etid, avg(score) from ETest\_Details group by etid;**

ETID AVG(SCORE)

---- ----------

T002 70

T005 72

T003 76.6666667

T001 85

T004 90

SQL> **-- 5. Display number of applicants by city**

SQL> **select city, count(aid) as number\_a from Applicant group by city;**

CITY NUMBER\_A

-------------------------------------------------- ----------

Jaipur 1

Delhi 1

Mumbai 1

Baroda 2

Kolkata 1

Lucknow 1

Nagpur 1

Surat 1

Chennai 2

Pune 1

10 rows selected.

SQL> **-- 6. Display ETID and Average score where average score is more than 50.**

SQL> -- asper query no 4 all is more than 50 than we do for more than 80

SQL> **select etid, avg(score) from ETEST\_DETAILS group by etid having avg(score)>80;**

ETID AVG(SCORE)

---- ----------

T001 85

T004 90

SQL> **-- 7. Count date wise total entrance test to be held.**

SQL> **SELECT TRUNC(etest\_date) as test\_date, COUNT(\*) AS total\_test FROM ETEST\_DETAILS GROUP BY TRUNC(etest\_date);**

TEST\_DATE TOTAL\_TEST

--------- ----------

20-AUG-25 1

23-AUG-25 2

21-AUG-25 2

27-AUG-25 1

25-AUG-25 2

26-AUG-25 1

15-AUG-25 1

18-AUG-25 1

22-AUG-25 1

17-AUG-25 1

10 rows selected.

SQL> **-- Question-2 tables: Distributor, Item and Dist\_Item**

SQL> **-- 1. Display city wise total number of distributors**

SQL> **select city, count(city) from Distributor group by city;**

CITY COUNT(CITY)

------------------------------ -----------

Delhi 1

Mumbai 1

Baroda 2

Surat 1

Pune 2

SQL> **-- 2. List the distributors by who distributed more than 50 items in month of July**

SQL> **select dno, sum(qty) from Dist\_Item where to\_char(ORDER\_DATE, 'MM')=8 group by dno having SUM(QTY) > 120;**

DNO SUM(QTY)

---- ----------

D001 180

D003 320

D004 150

SQL> **-- 3. List Item wise total quantity delivered and display items having more than 5000 Qty delivered**

SQL> **select Item\_No, sum(qty) from Dist\_Item group by Item\_No having sum(qty)>200;**

ITEM\_ SUM(QTY)

----- ----------

I002 230

I005 450

I001 220

SQL> **-- 4. List Dno who delivered more than 50 items for each month**

SQL> **select dno, sum(qty) as items, to\_char(ORDER\_DATE, 'MON') as month from Dist\_Item group by (dno, to\_char(ORDER\_DATE, 'MON')) having sum(qty)>200;**

DNO ITEMS MONTH

---- ---------- ------------

D003 320 SEP

D004 220 SEP

D005 340 SEP

SQL> **-- 5. Display item details in descending order of price and ascending order of weight**

SQL> **select \* from item order by price DESC, weight;**

ITEM\_ ITEM\_NAME PRICE WEIGHT

----- ------------------------------ ---------- ----------

I004 Oil 120 2

I001 Rice 50 5

I002 Wheat 40 4

I003 Sugar 35 3

I005 Salt 20 1

SQL> **-- 6. Show all distributors in alphabetical order of City and DName**

SQL> **select \* from distributor order by DNAME, CITY;**

DNO DNAME CITY PHONE

---- ------------------------------ ------------------------------ ------------

D001 ABC Distributors Baroda 9876543210

D007 ABCD Baroda 1234567890

D006 Fast Pune 9090912345

D005 FastMart Pune 9090909090

D004 Global Supply Delhi 9012345678

D003 Om Traders Mumbai 9988776655

D002 Shree Suppliers Surat 9123456780

7 rows selected.

SQL> **-- 7. Calculate average quantity of items distributed on each day.**

SQL> **select trunc(order\_date) as day, avg(qty) from dist\_item group by trunc(order\_date);**

DAY AVG(QTY)

--------- ----------

10-SEP-25 96.6666667

04-SEP-25 80

05-SEP-25 50

06-SEP-25 60

07-SEP-25 200

09-SEP-25 112.5

11-SEP-25 90

12-SEP-25 250

18-SEP-25 120

17-SEP-25 120

10 rows selected.

SQL> **-- 8. Find the weight wise average price of items**

SQL> **select weight, avg(price) from item group by weight;**

WEIGHT AVG(PRICE)

---------- ----------

5 50

4 40

3 35

2 85

1 25

SQL> **-- Question-3 tables: Worker, Job and Assigned;**

SQL> **-- 1. Display all workers in descending order of their Wages\_Per\_Hr**

SQL> **select \* from Worker order by WAGES\_PER\_HR desc;**

ID NAME WAGES\_PER\_HR

---------- --------------- ------------

4 Diana 70.00

2 Bob 60.00

1 Alice 50.00

3 Charlie 45.00

SQL> **-- 2. Count workers in each J\_Id**

SQL> **select J\_ID, count(W\_ID) from Assigned group by J\_ID;**

J\_ID COUNT(W\_ID)

---------- -----------

101 2

102 1

103 2

SQL> **-- 3. List all the W\_Id who has worked for more than 100 hrs**

SQL> **select W\_ID, sum(TOTAL\_HRS) as TOTAL\_HRS from Assigned group by W\_ID having sum(TOTAL\_HRS)>100;**

W\_ID TOTAL\_HRS

---------- ----------

1 120

2 110

3 150

SQL> **select W\_ID, sum(TOTAL\_HRS) as TOTAL\_HRS from Assigned WHERE status='Completed' group by W\_ID having sum(TOTAL\_HRS)>100;**

W\_ID TOTAL\_HRS

---------- ----------

1 120

3 150

SQL> **-- 4. Count total jobs which are pending till date 5.**

SQL> **select count(status) as pending\_work from Assigned where status='Pending';**

PENDING\_WORK

------------

2

SQL> **-- 5. Display all Job\_Id according to alphabetical order of their type**

SQL> **select \* from job order by JOB\_TYPE;**

JOB\_ID JOB\_TYPE

---------- ---------------

103 Painting

102 Plumbing

101 Welding