Shri Ramdeobaba College of Engineering & Management Nagpur-13 Department of Computer Application

Session: 2023-2024



Submission for

Course Name: Database Management Systems Lab

Course Code: MCP545

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Class Roll No: 26

Semester: MCA II semester

Shift: 2

Batch: 2

Under the Guidance of Prof. Yoginee Pethe

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List of Experiments

b) Alter table c) Truncate table

d) Drop table

1. Implementation of DDL commands of SQL with suitable examples

a) Create table

6. Study and Implementation of Sub queries

8. Study and Implementation of PL/SQL.

7. Study and Implementation of views, and synonyms.

	Implementation of DML commands of SQL with suitable examples	
	a) Select b) Insert c) Update d) Delete	
2.	2. Study and implementation of different types of constraints.	
3.	3. Implementation of different types of operators in SQL	
	a)Arithmetic Operators b) Logical Operators	
	c) Comparison Operators d) Set Operators	
4.	4. Study and Implementation of	
	a) Aggregate functions	
	b) Group By & Having clause	
	c) Order by clause	
5.	5. Study and Implementation of different types of joins like cross join,	natural join, inner
	join, and outer joins.	

Practical 4

Aim: Study and Implementation of

a) Aggregate functions

b) Group By & Having clause

c) Order by clause

Table: Furniture

FCODE	NAME	MATERIAL	PRICE	MANUFDATE	WCODE
1002	Coffee Chair	Wood	3000	19-NOV-2017	W01
1003	Dining table	Wood	20500	12-JAN-2019	W02
1004	Coffee Table	Glass	5000	06-JAN-2019	W02
1005	Chair	Wood	2500	07-MAY-2017	W01
1006	Recliner	Fibre	12000	31-MAR-2018	W03

Solution:

1. Find the maximum, minimum, and total price.

Query: SELECT MAX(price), MIN(price), SUM(price) FROM Furniture;

Results	Explain	Describe	Saved SQL	. History		
MAX(PRICE)			MIN(PRICE)	SUM(P	RICE)	
20500			2500		43000	
1 rows retu	urned in 0.0	0 seconds	Download			

2. Find the total number of furniture.

Query: SELECT COUNT(fcode) FROM Furniture;

Output:



3. List the total price for each material.

Query: SELECT material, SUM(price) FROM Furniture GROUP BY (material);

Output:

Results	Explain	Describe	Saved SQL	His	story		
		MATERIAL			SUM(PRICE)		
Glass					5000		
Wood					26000		
Fibre					12000		
3 rows ret	3 rows returned in 0.01 seconds Download						

4. Give maximum price for wood.

Query: SELECT material, MAX(price) FROM Furniture GROUP BY (material)

HAVING material='Wood';



5. Display the average price of each material.

Query: SELECT material, AVG(price) AS "Average Price" FROM Furniture GROUP BY (material);

Output:

Results	Explain [)escribe	Saved SQL	History			
МА	TERIAL			Average Price			
Glass		5000					
Wood		8666.6	66666666666	666666666666666666666666666666			
Fibre		12000					
3 rows ret	3 rows returned in 0.01 seconds Download						

6. List fcode and the amount of all furniture in ascending order of price.

Query: SELECT fcode, price FROM Furniture ORDER BY price ASC;

Results	Explain	Describe	Saved SQL	History					
		FCODE				PRICE			
1005					2500				
1002					3000				
1004					5000				
1006					12000				
1003					20500				
5 rows ret	5 rows returned in 0.01 seconds Download								

7. List the materials having a sum of price more than 10000.

Query: SELECT material, SUM(price) FROM Furniture GROUP BY (material)

HAVING SUM(price)>10000;

Output:

Results	Explain	Describe	cribe Saved SQL History					
		MATERIAL			SUM(PRICE)			
Wood					26000			
Fibre					12000			
2 rows ret	2 rows returned in 0.01 seconds Download							

8. Give the name of furniture whose number of wcode is less than 2.

Query: SELECT name FROM Furniture

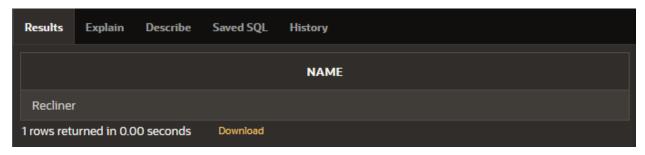
WHERE wcode IN (

SELECT wcode FROM Furniture GROUP BY wcode

HAVING COUNT(wcode) < 2

);

Output:



9. Give the name of materials whose average price is greater than 15000.

Query: SELECT material, AVG(price) FROM Furniture GROUP BY (material)

HAVING AVG(price)>15000;

Output: No data found.

10. Give the name of materials whose total price is less than 6000.

Query: SELECT material, SUM(price) FROM Furniture GROUP BY (material) HAVING SUM(price)<6000;

Output:

Results	Explain	Describe	Saved SQL His	tory	
	N	MATERIAL			SUM(PRICE)
Glass				5000	
1 rows returned in 0.01 seconds Download					

11. Display the name of the furnitures in descending order of manufacturing date.

Query: SELECT name FROM Furniture ORDER BY manufdate DESC;

