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Log out (BOLLA DIVYA SAI MOUNIKA KMEC)

program.sql

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Query 2: Customers with At Least 3 Deposits Over Rs. 5000 in a Month

Problem:

Write a SQL query to find customers who made at least 3 high-value deposits

(amount > 5000) within the same calendar month.

Your result should include:

The customer_id

The year and month (e.g., '2023-10')

The total number of such high-value deposits in that month

Sort of result:

Each row in the output should represent a customer-month combination where

the condition was met.

Database Name: fs

TABLE: transactions

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
customer_id	int	YES			NULL
amount	decimal(10,2)	YES			NULL
transaction_type			varchar(10)	YES	NULL
transaction_date			timestamp	YES	NULL

Sample Output:

customer_id month_label high_value_deposit_count

101 2023-10 3

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Query 3:

Write a SQL query to compute the running total of deposit amounts for each

customer in chronological order of transactions.

Expected Output Columns:

customer_id

transaction_date

amount

running_total

Hint: Use a window function like SUM(...) OVER (PARTITION BY ... ORDER BY ...).

Database Name: fs

TABLE: transactions

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
customer_id	int		YES		NULL
amount	decimal(10,2)		YES		NULL
transaction_type			varchar(10)	YES	NULL
transaction_date			timestamp	YES	NULL

Sample Output:

customer_id	transaction_date	amount	running_total
101	2023-10-01 10:00:00	5000.00	5000.00
101	2023-10-03 09:00:00	2500.00	7500.00
101	2023-10-04 12:00:00	7000.00	14500.00
101	2023-10-05 14:30:00	4000.00	18500.00
101	2023-10-06 16:00:00	6000.00	24500.00
101	2023-10-07 13:15:00	3000.00	27500.00
101	2023-10-09 09:30:00	8000.00	35500.00
102	2023-10-03 15:00:00	1000.00	1000.00

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Query 4:

Write a SQL query to find the students who have scored more than the average

marks of each subject in that respective subject.

Your output should include:

student_id

student_name

This query should only return students who have outperformed the average mark

in every subject they appeared in.

Database Name: fs

TABLE: student_marks

Field	Type	Null	Key	Default	Extra
student_id	int	YES		NULL	
student_name	varchar(50)	YES		NULL	
subject	varchar(30)	YES		NULL	
marks	int	YES		NULL	

Sample Output:

student_id	student_name
2	Bob
3	Charlie
5	Eva

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Query 5:

Write a SQL query to compute the rank of each student per subject based on their marks.

Your output should include:

student_id

student_name

subject

marks

subject_rank (1 for highest marks in that subject, 2 for second highest, etc.)

Use a window function like RANK() or DENSE_RANK() to assign ranks

Database Name: fs

TABLE: student_marks

Field	Type	Null	Key	Default	Extra
student_id	int	YES		NULL	
student_name	varchar(50)	YES		NULL	
subject	varchar(30)	YES		NULL	
marks	int	YES		NULL	

Sample Output:

student_id	student_name	subject	marks	subject_rank
3	Charlie	Math	95	1
5	Eva	Math	92	2
2	Bob	Math	90	3
1	Alice	Math	80	4
4	David	Math	70	5
5	Eva	Science	89	1
3	Charlie	Science	88	2
2	Bob	Science	85	3
1	Alice	Science	75	4
4	David	Science	68	5

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Query 6:

Write a SQL query to find students who have scored at least 85 marks in every

subject they have appeared for.

Your output should include:

student_id

student_name

These are consistent top performers – you should eliminate any student who has

even one subject below 85.

Database Name: fs

TABLE: student_marks

Field Type Null Key Default Extra

student_id int YES NULL

student_name varchar(50) YES NULL

subject varchar(30) YES NULL

marks int YES NULL

Sample Output:

student_id student_name

2 Bob

3 Charlie

5 Eva

*/

use fs;

select * from student_marks

-- select student_id, student_name from student_marks

-- where

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1  /*
2  Query 8:
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5  Write a SQL query to find the average marks scored in each subject for every
6  class.
7
8  The result should include:
9
10 The class
11 The subject
12 The average_marks (rounded to 2 decimal places)
13
14 Sort the output by average_marks in ascending order so that the
15 lowest-performing class-subject combinations appear first.
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25 -----
26 Database Name: fs
27 -----
28
29 TABLE: students
30
31 Field      Type      Null      Key      Default  Extra
32 roll_no    int        YES
33 name       varchar(50) YES
34 class      varchar(10) YES
35 section    char(1)    YES
36 subject    varchar(30) YES
37 marks      int        YES
38
39 -----
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44 Sample Output:
45 -----
46 class      subject  average_marks
47 10 Science  81.00
48 10 Math    85.40
49
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57 */
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```