/\*

1. Given the above table, structure a query to determine the total amount spent by all

visitors?

\*/

select sum([purchase\_amount]) as [total\_spend]

from [dbo].[aella\_credit]

**Answer**:

total\_spend

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18528

/\*

2. Given the above table, structure a query to return all users who visited in February AND

spent more than 1000 naira

\*/

select distinct user\_id

from [dbo].[aella\_credit]

where month(date\_visited) = 2

and purchase\_amount > 1000

**Answer**

user\_id

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10002

10003

/\*

3. Given the above table, structure a query to determine the highest and lowest amount

spent in each month

\*/

select datename(MM, [date\_visited]) as [month\_name],

month(date\_visited) as [month\_num], -- Include monthnumber to aid sorting month order

min([purchase\_amount]) as [minimum\_amount],

max([purchase\_amount]) as [maximum\_amount]

from [dbo].[aella\_credit]

group by datename(mm, [date\_visited]), month(date\_visited)

order by [month\_num] asc

**Answer**

month\_name month\_num minimum\_amount maximum\_amount

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January 1 15 3200

February 2 120 3000

March 3 450 5000

April 4 20 23

/\*

4. Given the above table, structure a query to determine the total monthly purchases

\*/

select datename(MM, [date\_visited]) as [month\_name],

month(date\_visited) as [month\_num],

sum([purchase\_amount]) as [total\_monthly]

from [dbo].[aella\_credit]

group by datename(MM, [date\_visited]), month(date\_visited)

order by [month\_num] asc

**Answer**

month\_name month\_num total\_monthly

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January 1 5195

February 2 5540

March 3 7750

April 4 43

/\*

5. Given the above table, structure a query to determine how much each user spends on

their second purchase.

\*/

-- Rank each transactions made by a user using the row\_number,sorted by date.

-- This implies, ranks will be given to each transaction a user and then we can filter for the rank 2

select user\_id, date\_visited, purchase\_amount as [2nd\_purchase\_amount] from (

select \*,

row\_number() over (partition by user\_id order by date\_visited asc) as user\_id\_row

from [dbo].[aella\_credit]

) as t

where user\_id\_row = 2

**Answer**

user\_id date\_visited 2nd\_purchase\_amount

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10001 2021-01-20 30

10002 2021-02-06 120

10003 2021-03-29 5000

10004 2021-01-14 15

10005 2021-02-13 120