Data Analyst Technical Test - Forma AI

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SOLUTIONS for SQL queries -

Answer 1:

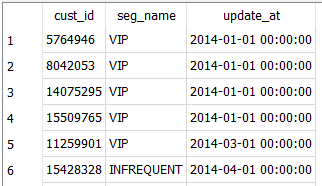
SELECT cust\_id, seg\_name, update\_at

FROM segments

WHERE active\_flag = 'Y'

ORDER BY update\_at;

Output:



Answer 2:

SELECT t.prod\_id, p.prod\_name, count(DISTINCT t.trans\_id) as count

FROM transactions t

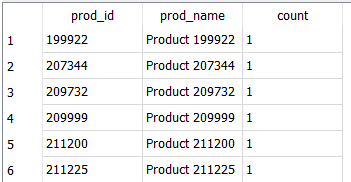
JOIN products p

ON t.prod\_id = p.prod\_id

WHERE t.trans\_dt BETWEEN '2015-12-31' AND '2016-06-01'

GROUP BY p.prod\_id;

Output:



Answer 3:

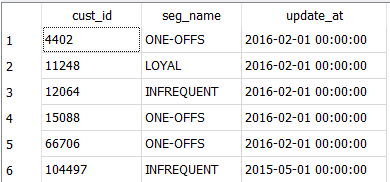
SELECT cust\_id , seg\_name, max(update\_at) as update\_at

FROM segments

WHERE update\_at <= '2016-03-01'

GROUP BY cust\_id;

Output:



Answer 4:

Select seg\_name, category, max(revenue) as revenue

FROM

(

SELECT s.seg\_name, p.category, SUM(t.item\_qty \* t.item\_price) revenue

FROM segments s

JOIN transactions t

ON s.cust\_id = t.cust\_id

JOIN products p

ON p.prod\_id = t.prod\_id

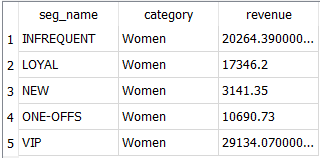
WHERE s.active\_flag = 'Y'

GROUP BY s.seg\_name, p.category

)

GROUP by seg\_name;

Output:



**Query to display the table before converting it to CSV/Sql**

select t.trans\_id, t.trans\_dt, t.cust\_id, t.prod\_id, t.item\_qty, t.item\_price,  
s.seg\_name, s.update\_at, s.active\_flag, p.prod\_name, p.brand, p.category  
from transactions t  
join segments s  
on t.cust\_id =  s.cust\_id  
join products p  
on t.prod\_id = p.prod\_id