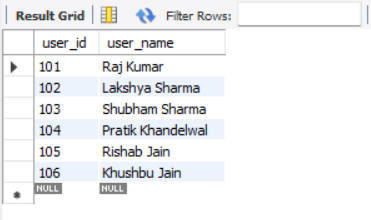
Name : Sudhanshu Wadhwani

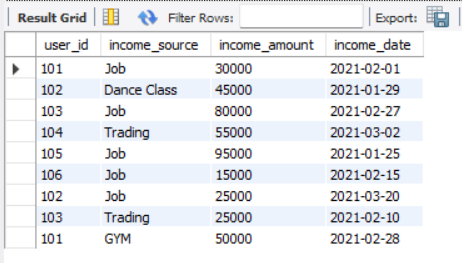
Task : DB-01 Assessment

I’ve created three tables : users, income and expense

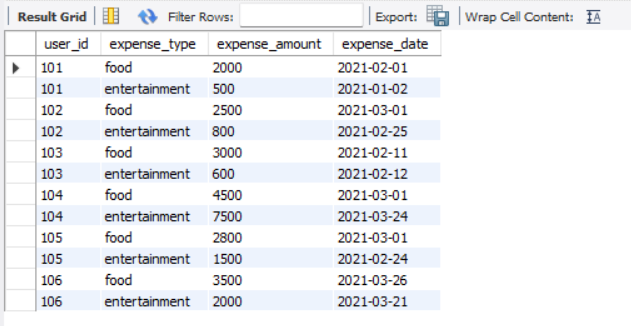
Users :



Income :

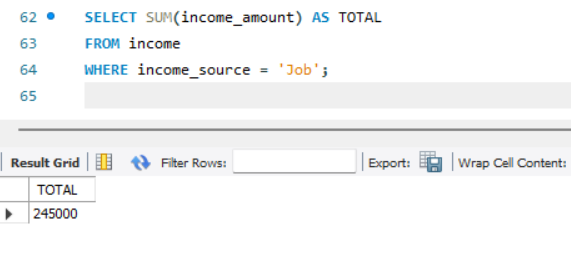


Expense :

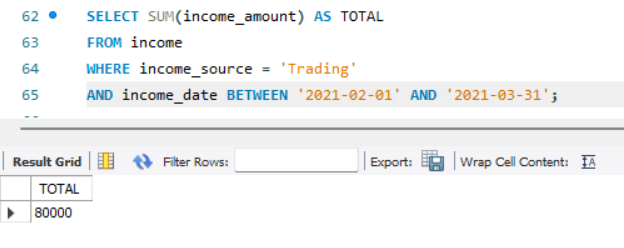


Queries :

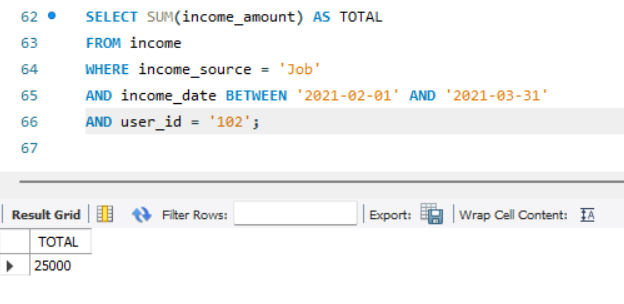
1. We should be able to find aggregate of all the income for a particular category.



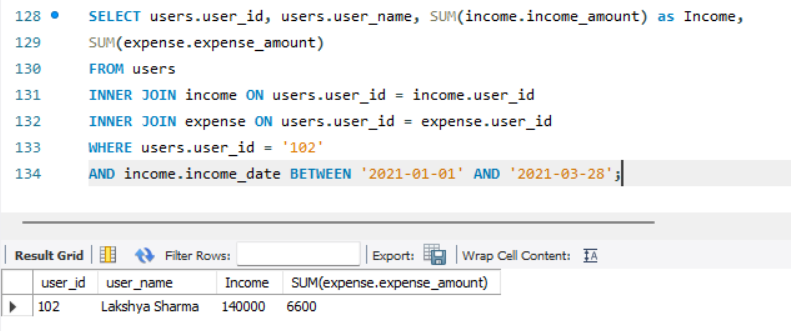
2. We should be able to find aggregate of all the income for a particular category for specific duration.



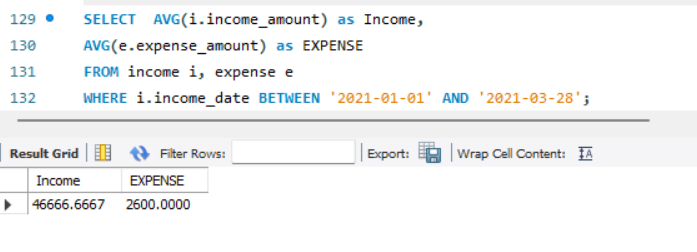
3. We should be able to find aggregate of all the income for a particular category for specific duration for specific user.



4. We should be able to find income and expense of particular user for specific duration.



5. We should be able to find average income or average expense of user of specific duration



6. We should be able to find overall remaining balance (maybe negative or positive based on income and expenses) for a particular user.

WITH temp\_income

AS (

SELECT u.user\_id

,u.user\_name

,coalesce(SUM(i.income\_amount), 0) AS INCOME

FROM users u

LEFT JOIN income i ON u.user\_id = i.user\_id

GROUP BY u.user\_id

,u.user\_name

)

,temp\_expense

AS (

SELECT u.user\_id

,u.user\_name

,coalesce(SUM(e.expense\_amount), 0) AS EXPENSE

FROM users u

LEFT JOIN fact\_expense e ON u.user\_id = e.user\_id

GROUP BY u.user\_id

,u.user\_name

)

SELECT c1.user\_id

,c1.user\_name

,c1.INCOME - c2.EXPENSE AS Balance

FROM temp\_income c1

INNER JOIN temp\_expense c2 ON c1.user\_id = c2.user\_id

WHERE c1.user\_id = '102';

