

Assignment - DB02

Create three tables and enter data as mentioned below.

Product Table: t_product_master

Product_ID	Product_Name	Cost_Per_Item
P1	Pen	10
P2	Scale	15
P3	Note Book	25

Note: Cost_Per_Item is in Rupees

User Table: t_user_master

User_ID	User_Name
U1	Alfred Lawrence
U2	William Paul
U3	Edward Phillip

Transaction Table: t_transaction

User_ID	Product_ID	Transaction_Date	Transaction_Type	Transaction_Amount
U1	P1	25-10-2010	Order	150
U1	P1	20-11-2010	Payment	750
U1	P1	20-11-2010	Order	200
U1	P3	25-11-2010	Order	50
U3	P2	26-11-2010	Order	100
U2	P1	15-12-2010	Order	75
U3	P2	15-01-2011	Payment	250

Note: Orders are in quantity and Payments are in Rupees.

Write SQL queries for following required outputs

1.

User_Name	Product_Name	Ordered_Quantity	Amount_Paid	Last_Transaction_Date	Balance

Note: Balance and Amount_Paid should be in Rupees.

SQLQuery3.sql - OPTIMUS-198\SQLXPRESS.DB02 (OPTIMUSDOM\sysadmin (54)) - Microsoft SQL Server Management Studio (Administrator)

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DB02

SQLQuery4.sql - O...OM\sysadmin (55)* SQLQuery3.sql - O...OM\sysadmin (54)* DB02_schema.sql - ...OM\sysadmin (58)

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USE DB02;

SELECT  TUM.USER_NAME,
        TPM.PRODUCT_NAME,
        Q1.QUANTITY AS ORDERED_QUANTITY,
        CASE
            WHEN Q2.PAYMENT IS NULL THEN 0
            ELSE Q2.PAYMENT
        END AS AMOUNT_PAID,
        CASE
            WHEN Q2.LAST_DATE > Q1.LAST_DATE THEN Q2.LAST_DATE
            ELSE Q1.LAST_DATE
        END AS LAST_TRANSACTION_DATE,
        CASE
            WHEN Q2.PAYMENT IS NULL THEN Q1.QUANTITY*TPM.COST_PER_ITEM
            ELSE Q1.QUANTITY*TPM.COST_PER_ITEM - Q2.PAYMENT
        END AS BALANCE
FROM
(
    SELECT T_TRANSACTION.USER_ID AS USER_ID,
           T_TRANSACTION.PRODUCT_ID AS PRODUCT_ID,
           MAX(T_TRANSACTION.TRANSACTION_DATE) AS LAST_DATE,
           SUM(T_TRANSACTION.TRANSACTION_AMOUNT) AS QUANTITY
    FROM   T_TRANSACTION
    WHERE  T_TRANSACTION.TRANSACTION_TYPE='ORDER'
    GROUP BY T_TRANSACTION.USER_ID, T_TRANSACTION.PRODUCT_ID
) Q1
LEFT JOIN
(
    SELECT T_TRANSACTION.USER_ID,
           T_TRANSACTION.PRODUCT_ID,
           MAX(T_TRANSACTION.TRANSACTION_DATE) AS LAST_DATE,
           SUM(T_TRANSACTION.TRANSACTION_AMOUNT) AS PAYMENT
    FROM   T_TRANSACTION
    WHERE  T_TRANSACTION.TRANSACTION_TYPE='PAYMENT'
    GROUP BY USER_ID, PRODUCT_ID
) Q2 ON Q1.USER_ID = Q2.USER_ID AND Q1.PRODUCT_ID = Q2.PRODUCT_ID
LEFT JOIN T_USER_MASTER TUM ON TUM.USER_ID = Q1.USER_ID
LEFT JOIN T_PRODUCT_MASTER TPM ON TPM.PRODUCT_ID = Q1.PRODUCT_ID
```

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Results Messages

	USER_NAME	PRODUCT_NAME	ORDERED_QUANTITY	AMOUNT_PAID	LAST_TRANSACTION_DATE	BALANCE
1	Alfred Lawrence	Pen	350	750	2010-11-20	2750
2	William Paul	Pen	75	0	2010-12-15	750
3	Edward Filpp	Scale	100	250	2011-01-15	1250
4	Alfred Lawrence	Note Book	50	0	2010-11-25	1250

Query executed successfully. OPTIMUS-198\SQLXPRESS (11... OPTIMUSDOM\sysadmin (54) DB02 00:00:00 4 rows

Matches: (Ln 39 Col 65 Ch 65 INS

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