Accounting System

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Lab: Lab 7

Queries:

1. Given a date each company can retrieve the financial transactions of that particular date.

Relational Algebra:

 π (TransactionNumber, TransactionDate, Amount, F.Description, AccountName, CompanyName)(σ (CompanyName = 'Myntra' AND TransactionDate = '10-23-2020')((Company \bowtie <Company.CompanyID = FinancialTransactions.CompanyId> FinancialTransactions) \bowtie <FinancialTransactions.AccountId = Account.AccountId> Account))

SOL Ouerv:

Select TransactionNumber, TransactionDate, Amount, F.Description, AccountName, CompanyName

From Company as C JOIN FinancialTransactions as F ON (C.CompanyID = F.CompanyId) JOIN Account as A ON (F.AccountId = A.AccountId) Where CompanyName = 'Myntra' AND TransactionDate = '10-23-2020';

2. Each company can retrieve all the personal accounts that are associated with it. Relational Algebra:

 Π (PersonalAccount.CompanyName, PersonalAccount.GSTIN)(σ (Company.CompanyName = 'Myntra')

(((Personal Account M<Personal Account. Account Id = Account. Account Id > Account) M<Account. Account Group Id =

AccountGroup.AccountGroupId> AccountGroup) M<Company.CompanyID = AccountGroup.CompanyId> Company))

SQL Query:

Select P.CompanyName, P.GSTIN

From PersonalAccount as P JOIN Account as A ON (P.AccountId = A.AccountId) JOIN AccountGroup as AG ON (AG.AccountGroupId = A.AccountGroupId) JOIN Company as C ON (C.CompanyID = AG.CompanyId)

Where C.CompanyName = 'Myntra';

6. Retrieve any receipt by their bill number.

Relational Algebra:

ρ(Si,SalesInvoice)

 $\rho(A,Account)$

 $\rho(C,Company)$

 ρ (I,SalesItem)

ρ(It,Item)

 $\Pi(\text{C.CompanyName,A.AccountName,Si.Invoiceld,Si.Date,It.ItemName,I.Amount,I.Qty}) \\ (\sigma(\text{C.CompanyName} = \text{`Myntra'} \text{AND Invoiceld,Si.Date,It.ItemName,I.Amount,I.Qty}) \\ (\sigma(\text{C.CompanyName} = \text{`Myntra'} \text{AND Invoiceld,Si.Date,II.Qty}) \\ (\sigma(\text{C.CompanyName} = \text{`M$

SalesInvoice.InvoiceID=1)((((SalesInvoice \bowtie <Si.AccountId = A.AccountId> Account) \bowtie <C.CompanyID =

 $\textit{Si.CompanyId} > Company) \;\; \text{M<Si.InvoiceId = I.InvoiceId and Si.CompanyId=I.CompanyId> } \\ SalesItem) \;\; \text{M<I.ItemID = I.InvoiceId and Si.CompanyId=I.CompanyId> } \\ SalesItem) \;\; \text{M<I.ItemID = I.InvoiceId and Si.CompanyId=I.CompanyId> } \\ SalesItem) \;\; \text{M<I.ItemID = I.InvoiceId and Si.CompanyId=I.CompanyId> } \\ SalesItem) \;\; \text{M<I.ItemID = I.InvoiceId and Si.CompanyId=I.CompanyId> } \\ SalesItem) \;\; \text{M<I.ItemID = I.InvoiceId and Si.CompanyId=I.CompanyId> } \\ SalesItem) \;\; \text{M<I.ItemID = I.InvoiceId and Si.CompanyId=I.CompanyId> } \\ SalesItem) \;\; \text{M<I.ItemID = I.InvoiceId and Si.CompanyId=I.ItemID=I.InvoiceId and Si.CompanyId=I.ItemID=$

It.ItemID> Item))

SQL Query:

Select C.CompanyName, A.AccountName, Si.InvoiceId, Si.Date, It.ItemName, I.Amount, I.Oty

From SalesInvoice as Si

JOIN Account as A ON (Si.AccountId = A.AccountId)

JOIN Company as C ON (C.CompanyID = Si.CompanyId)

JOIN SalesItem as I ON (Si.InvoiceId = I.InvoiceId and Si. CompanyId=I. CompanyId)

JOIN Item as It ON (I.ItemID = It.ItemID)

Where C.CompanyName = 'Myntra' and Si.InvoiceID=1;

7. Retrieve any invoice by their receipt number.

Relational Algebra:

 $\label{thm:company:c$

 $Amount, Purchase I tem. Qty) \Big(\textbf{O}(Company. CompanyName = 'Myntra' AND Purchase Invoice. Receipt ID=1) \\$

((((PurchaseInvoice M<PurchaseInvoice.AccountId = Account.AccountId> Account) M<Company.CompanyID =

 $\textit{PurchaseInvoice.CompanyId} > \textit{Company}) \; \textit{M} < \textit{PurchaseInvoice.ReceiptID} = \textit{PurchaseItem.ReceiptID} \; \text{and} \; \text{M} < \textit{PurchaseInvoice.ReceiptID} = \textit{PurchaseItem.ReceiptID} \; \text{Additional purchaseInvoice.}$

Purchase Invoice. CompanyId=Purchase Item. CompanyId> Purchase Item) M <Purchase Item. ItemID> Item))

SQL Query:

Select C.CompanyName, A.AccountName, Pi.ReceiptID, Pi.Date, It.ItemName,

I.Amount, I.Qty

From PurchaseInvoice as Pi

JOIN Account as A ON (Pi.AccountId = A.AccountId)

JOIN Company as C ON (C.CompanyID = Pi.CompanyId)

JOIN PurchaseItem as I ON (Pi.ReceiptID = I.ReceiptID and Pi. CompanyId=I.

CompanyId)

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JOIN Item as It ON ( I.ItemID = It.ItemID )
Where C.CompanyName = 'Myntra' AND Pi.ReceiptID=1;
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8. Can retrieve details of the purchase made on a particular day.

Relational Algebra:

 $\begin{array}{l} \rho(Pi,PurchaseInvoice)\\ \rho(A,Account)\\ \rho(C,Company)\\ \rho(I,PurchaseItem)\\ \rho(It,Item) \end{array}$

 $\pi(\text{C.CompanyName,A.AccountName,Pi.ReceiptID,Pi.Date,It.ItemName,I.Amount,I.Qty}) \\ (\sigma(\text{C.CompanyName} = \text{'Myntra' and Pi.Date} = \text{'10-23-2020'}) \\ (((\text{PurchaseInvoice} \bowtie < \text{Pi.AccountId} = \text{A.AccountId} > \text{Account}) \bowtie < \text{C.CompanyID} = \text{Pi.CompanyId} > \text{CompanyId} > \text{CompanyId$

PurchaseItem) $\bowtie < I.ItemID = It.ItemID > Item)$

SQL Query:

Select C.CompanyName, A.AccountName, Pi.ReceiptID, Pi.Date, It.ItemName, I.Amount, I.Qty

From PurchaseInvoice as Pi

JOIN Account as A ON (Pi.AccountId = A.AccountId)

JOIN Company as C ON (C.CompanyID = Pi.CompanyId)

JOIN PurchaseItem as I ON (Pi.ReceiptID = I.ReceiptID and Pi. CompanyId=I.CompanyId) JOIN Item as It ON (I.ItemID = It.ItemID)

Where C.CompanyName = 'Myntra' and Pi.Date= '10-23-2020';

9. Can retrieve details of the sales made on a particular day.

Relational Algebra:

ρ(Si,SalesInvoice)

 $\rho(A,Account)$

 $\rho(C,Company)$

 $\rho(I,SalesItem)$

ρ(It,Item)

 $\pi_{(C.CompanyName,A.AccountName,Si.InvoiceId,Si.Date,It.ItemName,I.Amount,I.Qty)} \\ (\sigma_{(C.CompanyName = 'Myntra' and Si.Date = '10-23-2020'')} \\ (((SalesInvoice \bowtie < Si.AccountId = A.AccountId > Account) \bowtie < C.CompanyID = Si.CompanyId > AccountId > Account$

Company) $\bowtie < Si.ReceiptID = I.ReceiptID$ and $Si.CompanyId = I.CompanyId > SalesItem) <math>\bowtie < I.ItemID = It.ItemID > Item)$)

SQL Query:

Select C.CompanyName, A.AccountName, Si.InvoiceId, Si.Date, It.ItemName, I.Amount, I.Qty

From SalesInvoice as Si

JOIN Account as A ON (Si.AccountId = A.AccountId)

JOIN Company as C ON (C.CompanyID = Si.CompanyId)

JOIN SalesItem as I ON (Si.InvoiceId = I.InvoiceId and Si. CompanyId=I. CompanyId)

JOIN Item as It ON (I.ItemID = It.ItemID)

10. Can retrieve details of the purchases whose amount is between a given range. Relational Algebra:

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ρ (Pi,PurchaseInvoice)
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ρ (A, Account)

ρ (C,Company)

ρ (I,PurchaseItem)

ρ (It,Item)

 π (C.CompanyName,A.AccountName,Pi.ReceiptID,Pi.Date,It.ItemName,I.Amount,I.Qty)

(**o**(C.CompanyName = 'Myntra' and I.Amount BETWEEN (5000 AND20000))

 $((((PurchaseInvoice \bowtie < Pi.AccountId = A.AccountId > Account) \bowtie < C.CompanyID = Pi.CompanyId > Company))$

M <Pi.ReceiptID = I.ReceiptID AND Pi.CompanyId=I.CompanyId> PurchaseItem) M <I.ItemID = It.ItemID> Item))

SQL Query:

Select C.CompanyName, A.AccountName, Pi.ReceiptID, Pi.Date, It.ItemName, I.Amount, I.Qty

From PurchaseInvoice as Pi

JOIN Account as A ON (Pi.AccountId = A.AccountId)

JOIN Company as C ON (C.CompanyID = Pi.CompanyId)

JOIN PurchaseItem as I ON (Pi.ReceiptID = I.ReceiptID and Pi. CompanyId=I.

CompanyId)

JOIN Item as It ON (I.ItemID = It.ItemID)

Where C.CompanyName = 'Myntra' and I.Amount BETWEEN 1000 and 2000000;

11. Can retrieve details of the sales whose amount is between a given range. Relational Algebra:

```
ρ (Si, Sales Invoice)
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ρ (A,Account)

ρ (C,Company)

ρ (I,SalesItem)

ρ (It,Item)

 π (C.CompanyName,A.AccountName,Si.InvoiceID,Si.Date,It.ItemName,I.Amount,I.Qty)

(σ (C.CompanyName = 'Myntra' and I.Amount BETWEEN 5000 and 20000)

<Si.InvoiceID = I.InvoiceID AND Si.CompanyId=I.CompanyId> SalesItem) \(\mathbb{N} < I.ItemID = It.ItemID > Item)\)

SQL Query:

Select C.CompanyName, A.AccountName, Si.InvoiceId, Si.Date, It.ItemName, I.Amount, I.Qty

From SalesInvoice as Si

JOIN Account as A ON (Si.AccountId = A.AccountId)

JOIN Company as C ON (C.CompanyID = Si,CompanyId)

JOIN SalesItem as I ON (Si.InvoiceId = I.InvoiceId and Si. CompanyId=I. CompanyId)

JOIN Item as It ON (I.ItemID = It.ItemID)
Where C.CompanyName = 'Myntra' and I.Amount BETWEEN 5000 and 20000;

12. Can show the position of all the accounts of a given account group of a given company. Like showing the value of all the assets.

Relational Algebra:

 π AccountName, Fsum(f.account) as total_accounts(σ (C.CompanyName = 'Myntra' and AG.Name= 'Assets')

 $((((\rho_f(FinancialTransactions) \bowtie < f.AccountID = A.AccountID > \rho_A(Account)))$

M<A.AccountGroupId=AG.AccountGroupId>PAG(AccountGroup))

 $M < AG.CompanyID = C.CompanyID > \rho C(Company))$

SQL Query:

Select A.AccountName, SUM(F.Amount)

From FinancialTransactions as F JOIN Account as A ON(F.AccountId=A.AccountId) JOIN AccountGroup as AG ON (AG.AccountGroupId = A.AccountGroupId) JOIN Company as C ON (C.CompanyID = AG.CompanyId)

Where C.CompanyName = 'Myntra' AND AG.Name = 'Short-Term Assets' GROUP BY A.AccountName;

13. List all the Journal Entries of a given Financial Year. Relational Algebra:

SQL Query:

Select Ft. TransactionNumber, Ft. TransactionDate, ac. accountName, ABS(Ft. Amount) as "Transaction Amount"

From FinancialTransactions as ft

INNER JOIN Company as c ON (c.companyId = ft.companyId)

INNER JOIN Account as ac ON (ft.accountId) = ac.accountId)

INNER JOIN AccountGroup as acg ON (acg.AccountGroupId = ac.AccountGroupId)

Where C.CompanyName = 'Myntra' AND Ft.TransactionDate BETWEEN '04-01-2019' AND '03-31-2020'

Order By Ft. Transaction Number;

Relational Algebra:

14. Retrieve any given ledger account of a particular company.

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\piAccountName, Fsum(f.account) as total accounts (\sigma(C.CompanyName = 'Myntra' and A.AccountName= 'Machinery')
((((pf(FinancialTransactions) M<f.AccountID=A.AccountID>pa(Account))
M < A.AccountGroupId = AG.AccountGroupId > \rho AG(AccountGroup))
M < AG.CompanyID = C.CompanyID > \rho C(Company))
SQL Query:
Select A.AccountName, SUM(F.Amount)
From Financial Transactions as F JOIN Account as A ON(F.AccountId=A.AccountId) JOIN
AccountGroup as AG ON (AG.AccountGroupId = A.AccountGroupId) JOIN Company as C
ON (C.CompanyID = AG.CompanyId)
Where C.CompanyName = 'Myntra' AND A.AccountName = 'Machinery'
GROUP BY A.AccountName:
19. Calculate Gross Profit and Loss of a company of a given year.
Relational Algebra:
r1 < -A. Account Id \mathcal{F} SUM(F. Amount) -> Dr Trading Sum (\sigma(C. Company Name = 'Myntra' AND AG. Name= 'Trading Account' AND
AG.Header = True AND (F.TransactionDate >= '04-01-2019' AND F.TransactionDate <= '03-31-2020'))
((((\rho_f(FinancialTransactions)) \bowtie_{f.AccountID=A.AccountID>\rho_A(Account)))
\bowtie < A.AccountGroupId = AG.AccountGroupId > \rho_{AG}(AccountGroup))
\bowtie_{AG.CompanyID=C.CompanyID} > \rho_C(Company)) \cup \rho_{DrTradingSum}(0)
DrTable<-\mathcal{F}_SUM(r1.DrTradingSum)->DrSide
r2 < \texttt{-}A.AccountId\mathcal{F}SUM(F.Amount) - \\ > CrTradingSum \Big( \sigma(C.CompanyName = \texttt{'Myntra'} AND\ AG.Name = \texttt{'Trading}\ Account'\ AND\ AG.Name = \texttt
AG.Header = False AND (F.TransactionDate >= '04-01-2019' AND F.TransactionDate <= '03-31-2020'))
((((\rho_f(FinancialTransactions) \bowtie_{f.AccountID=A.AccountID})\rho_A(Account))
M<A.AccountGroupId=AG.AccountGroupId>PAG(AccountGroup))
\bowtie_{< AG.CompanyID = C.CompanyID > \rho_C(Company))} \cup \rho_{CrTradingSum}(0)
CrTable<-\mathcal{F}_SUM(r2.CrTradingSum)->CrSide
GrossProfit<-σ<sub>(CrSide - DrSide)</sub>(DrTable x CrTable)
SQL Query:
Select (CrSide - DrSide) as "Gross Profit"
From
                                   Select SUM(DrTradingSum) as DrSide
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```
From(
                                                    Select SUM(F.Amount) as DrTradingSum
                                                    From Financial Transactions as F JOIN Account as A
ON(F.AccountId=A.AccountId) JOIN
                                                    AccountGroup as AG ON (AG.AccountGroupId = A.AccountGroupId)
JOIN Company as C
                                                    ON (C.CompanyID = AG.CompanyId)
                                                    Where C.CompanyName = 'Myntra' AND AG.ShowIn = 'Trading
Account' AND AG. Header = True
                                                    AND F.TransactionDate BETWEEN '04-01-2019' AND '03-31-2020'
                                                    GROUP BY A.AccountId
                                                    UNION
                                                    Select 0 as DrTradingSum
                                  ) as r1
                 ) as DrTable,
                                   Select SUM(CrTradingSum) as CrSide
                                   From(
                                                    Select SUM(F.Amount) as CrTradingSum
                                                    From Financial Transactions as F JOIN Account as A
ON(F.AccountId=A.AccountId) JOIN
                                                    AccountGroup as AG ON (AG.AccountGroupId = A.AccountGroupId)
JOIN Company as C
                                                    ON (C.CompanyID = AG.CompanyId)
                                                    Where C.CompanyName = 'Myntra' AND AG.ShowIn = 'Trading
Account' AND AG. Header = False
                                                    AND F.TransactionDate BETWEEN '04-01-2019' AND '03-31-2020'
                                                    GROUP BY A. AccountId
                                                    UNION
                                                    Select 0 as CrTradingSum
                                  ) as r2
                 ) as CrTable;
20. Calculate the Net profit or loss of a company of a given year.
Relational Algebra:
r1 \le -\text{A.AccountId} \mathcal{F} \text{SUM}(\text{F.Amount}) - \text{PrPNLSum} \big( \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Profit and Loss'} \big) + \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Profit and Loss'} \big) + \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Profit and Loss'} \big) + \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Profit and Loss'} \big) + \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Profit and Loss'} \big) + \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Profit and Loss'} \big) + \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Profit and Loss'} \big) + \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Profit and Loss'} \big) + \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Profit and Loss'} \big) + \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Profit and Loss'} \big) + \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Profit and Loss'} \big) + \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Profit and Loss'} \big) + \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Profit and Loss'} \big) + \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Profit and Loss'} \big) + \sigma(\text{C.CompanyName} = \text{'Myntra' AND AG.ShowIn} = \text{'Myntra' AD.ShowIn} = \text{'Myntra' AD.
Account' AND AG.Header = True AND (F.TransactionDate >= '04-01-2019' AND F.TransactionDate <= '03-31-2020'))
((((\rho_f(FinancialTransactions)) \bowtie_{f.AccountID=A.AccountID}) \rho_A(Account))
M < A.AccountGroupId = AG.AccountGroupId > \rho_{AG}(AccountGroup))
\bowtie<aG.CompanyID=C.CompanyID>\rhoC(Company)) \cup \rhoDrPNLSum(0)
```

DrTable<-\mathcal{F}_SUM(r1.DrPNLSum)->DrSide

```
r2 < -A.AccountId \mathcal{F} SUM(F.Amount) -> CrPNLSum (\sigma(C.CompanyName = 'Myntra' AND AG.ShowIn = 'Profit and Loss')
Account' AND AG.Header = True AND (F.TransactionDate >= '04-01-2019' AND F.TransactionDate <= '03-31-2020'))
((((\rho_f(FinancialTransactions)) \bowtie_{f.AccountID=A.AccountID}) \rho_A(Account))
\bowtie<A.AccountGroupId=AG.AccountGroupId>\rhoAG(AccountGroup))
\bowtie < AG.CompanyID = C.CompanyID > \rho_C(Company)) \cup \rho_{CrPNLSum}(0)
CrTable <- F SUM(r1.CrPNLSum)->CrSide
r3<-A.AccountIdFSUM(F.Amount)->DrTradingSum(\sigma(C.CompanyName = 'Myntra' AND AG.Name= 'Trading Account'
AND AG.Header = True AND (F.TransactionDate >= '04-01-2019' AND F.TransactionDate <= '03-31-2020'))
((((\rho_f(FinancialTransactions)) \bowtie_{f.AccountID=A.AccountID}) \rho_A(Account))
\bowtie_{< A. Account Group Id = AG. Account Group Id > \rho_{AG}(Account Group))}
\bowtie_{AG.CompanyID=C.CompanyID} > \rho_C(Company)) \cup \rho_{DrTradingSum}(0)
DrTable <- F SUM(DrTradingSum)->DrSide
r4 < -A. Account Id F SUM(F. Amount) -> CrTrading Sum (\sigma(C. Company Name = 'Myntra' AND AG. Name= 'Trading Account')
AND AG.Header = False AND (F.TransactionDate >= '04-01-2019' AND F.TransactionDate <= '03-31-2020'))
((((\rho_f(FinancialTransactions)) \bowtie_{f.AccountID=A.AccountID}) \rho_A(Account))
\bowtie<A.AccountGroupId=AG.AccountGroupId>\rhoAG(AccountGroup))
\bowtie<aG.CompanyID=C.CompanyID>\rhoC(Company)) \cup \rhoCrTradingSum(0)
CrTable <- F SUM(CrTradingSum)->CrSide
GrossProfitTable<-σ(r4.CrSide - r3.DrSide)(DrTable x CrTable)
Net Profit < -\sigma_{(CrSide + GrossProfit - DrSide)}(DrTable X CrTable X GrossProfitTable)
SQL Query:
Select (CrSide + GrossProfit - DrSide) as "Net Profit"
From
                Select SUM(DrPNLSum) as DrSide
                From(
                        Select SUM(F.Amount) as DrPNLSum
                        From Financial Transactions as F JOIN Account as A
ON(F.AccountId=A.AccountId) JOIN
```

```
AccountGroup as AG ON (AG.AccountGroupId = A.AccountGroupId)
JOIN Company as C
                  ON (C.CompanyID = AG.CompanyId)
                  Where C.CompanyName = 'Myntra' AND AG.ShowIn = 'Profit and
Loss Account' AND AG.Header = True
                  AND F.TransactionDate BETWEEN '04-01-2019' AND '03-31-2020'
                  GROUP BY A. AccountId
                  UNION
                  Select 0 as DrPNLSum
            ) as r1
      ) as DrTable,
            Select SUM(CrPNLSum) as CrSide
            From(
                  Select SUM(F.Amount) as CrPNLSum
                  From Financial Transactions as F JOIN Account as A
ON(F.AccountId=A.AccountId) JOIN
                  AccountGroup as AG ON (AG.AccountGroupId = A.AccountGroupId)
JOIN Company as C
                  ON (C.CompanyID = AG.CompanyId)
                  Where C.CompanyName = 'Myntra' AND AG.ShowIn = 'Profit and
Loss Account' AND AG. Header = False
                  AND F.TransactionDate BETWEEN '04-01-2019' AND '03-31-2020'
                  GROUP BY A. AccountId
                  UNION
                  Select 0 as DrPNLSum
            ) as r2
      ) as CrTable,
            Select (CrSide - DrSide) as GrossProfit
            From
                  Select SUM(DrTradingSum) as DrSide
                  From(
                        Select SUM(F.Amount) as DrTradingSum
                        From Financial Transactions as F JOIN Account as A
ON(F.AccountId=A.AccountId) JOIN
                        AccountGroup as AG ON (AG.AccountGroupId =
A.AccountGroupId) JOIN Company as C
                        ON (C.CompanyID = AG.CompanyId)
                        Where C.CompanyName = 'Myntra' AND AG.ShowIn =
'Trading Account' AND AG.Header = True
                        AND F.TransactionDate BETWEEN '04-01-2019' AND
'03-31-2020'
                        GROUP BY A. AccountId
```

```
UNION
                        Select 0 as DrTradingSum
                  ) as r1
            ) as DrTable,
                  Select SUM(CrTradingSum) as CrSide
                  From(
                        Select SUM(F.Amount) as CrTradingSum
                        From FinancialTransactions as F JOIN Account as A
ON(F.AccountId=A.AccountId) JOIN
                        AccountGroup as AG ON (AG.AccountGroupId =
A.AccountGroupId) JOIN Company as C
                        ON (C.CompanyID = AG.CompanyId)
                        Where C.CompanyName = 'Myntra' AND AG.ShowIn =
'Trading Account' AND AG.Header = False
                        AND F.TransactionDate BETWEEN '04-01-2019' AND
'03-31-2020'
                        GROUP BY A. AccountId
                        UNION
                        Select 0 as DrTradingSum
                  ) as r2
            ) as CrTable
      ) as GrossProfitTable;
```