Liyanwei

1. Basic Tasks

SELECT COUNT(\*) AS Total\_Transactions FROM ACC\_TRANSACTION;

SELECT COUNT(\*) AS CHK\_Accounts FROM ACCOUNT WHERE productCode = 'CHK';

SELECT title, COUNT(\*) AS Number\_Of\_Employees FROM EMPLOYEE GROUP BY title;

SELECT custID, COUNT(\*) AS Number\_Of\_Accounts FROM ACCOUNT GROUP BY custID;

SELECT SUM(availableBalance) AS Total\_Balance FROM ACCOUNT WHERE custID = 1;

SELECT custID, SUM(availableBalance) AS Total\_Balance FROM ACCOUNT GROUP BY custID;

SELECT productCode, AVG(availableBalance) AS Average\_Balance FROM ACCOUNT GROUP BY productCode;

2. Medium Tasks

SELECT SUM(availableBalance) AS Total\_Balance FROM ACCOUNT WHERE branchID = (SELECT branchID FROM BRANCH WHERE branchName = 'Woburn');

SELECT productCode, MAX(availableBalance) AS Highest\_Balance FROM ACCOUNT GROUP BY productCode;

SELECT MIN(availableBalance) AS Minimum\_Balance FROM ACCOUNT;

SELECT custID, FLOOR(SUM(availableBalance)) AS Total\_Balance FROM ACCOUNT GROUP BY custID;

SELECT CONCAT(lastName, ', ', firstName) AS Employee\_Name FROM EMPLOYEE;

SELECT CONCAT(firstName, ' ', lastName, ' Position: ', title) AS Employee\_Details FROM EMPLOYEE;

3. Advanced Tasks

SELECT REPLACE('Fear leads to anger; anger leads to hatred; hatred leads to conflict; conflict leads to suffering', 'anger', 'panic buying') AS Modified\_Text;

UPDATE CUSTOMER SET fedID = REPLACE(REPLACE(fedID, '-', ''), ' ', '');

SELECT YEAR(transDate) AS Year, COUNT(\*) AS Number\_Of\_Transactions FROM ACC\_TRANSACTION GROUP BY YEAR(transDate);

UPDATE EMPLOYEE SET title = UPPER(title);

SELECT COUNT(\*) AS Count,

CASE

WHEN title LIKE '%TELLER%' THEN 'Cashier'

ELSE 'Other'

END AS JobTitle

FROM EMPLOYEE

GROUP BY JobTitle;

SELECT custID, SUM(availableBalance) AS Total\_Balance FROM ACCOUNT GROUP BY custID HAVING SUM(availableBalance) < 5000;

SELECT branchID, COUNT(\*) AS Total\_Staff FROM EMPLOYEE GROUP BY branchID;

SELECT COUNT(\*) AS Number\_Of\_Accounts,

CASE

WHEN productCode = 'CHK' THEN 'Checking Account'

WHEN productCode = 'SAV' THEN 'Savings Account'

END AS Product\_Type

FROM ACCOUNT

WHERE productCode IN ('CHK', 'SAV')

GROUP BY productCode;