

Banking.sql - DESKTOP-BLAC2BR.BankingSystem (DESKTOP-BLAC2BR\lathi (64)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q) x

Object Explorer

BankingSystem

File Edit View Project Tools Window Help

New Query x

BankingSystem

Object Explorer

BankingSystem

CREATE DATABASE BankingSystem;

USE BankingSystem;

Results Messages

BranchID Admin Phone_Number

1	Muscat Main Branch	24111111
2	Sohar Branch	23222222
3	Sohar Branch	26233333

CustomerID Name Address DOB

1	Fathyah Alhadi	Muscat	2000-01-01
2	Ahmed Ali	Salalah	1995-05-10
3	Sam Mohammed	Sohar	2001-05-15

CustomerID Phone_Number

1	91234567
2	92345678
3	93456789

EmployeeID BranchID Name Position

1	1	Ali Hassan	Manager
2	2	Mona Saleh	Loan Officer
3	3	Khalid Omar	Teller

Account_Number CustomerID Balance Savings Checking Date_of_Creation

1	100000	1	10000.00	1	0	2023-03-15
2	100001	2	25000.00	0	1	2022-07-20
3	100002	3	4000.00	1	1	2023-11-05

LoanID CustomerID EmployeeID Amount Type Issue_Date

1	100000	1	15000.00	Car Loan	2020-05-01
2	100001	2	30000.00	Car Loan	2019-10-01
3	100002	3	200000.00	Business	2020-02-20

TransactionID Account_Number Transaction_Date Amount Type Withdrawals Deposits Transfers

1	100000	2024-01-05	2000.00	Withdrawal	1	0	0
2	100001	2024-02-10	5000.00	Deposit	0	1	0
3	100002	2024-03-12	3000.00	Transfer	0	0	1

CustomerID EmployeeID Action_Type

1	1	2	Loan Approval
2	2	1	Account Opening
3	3	3	Transaction As...

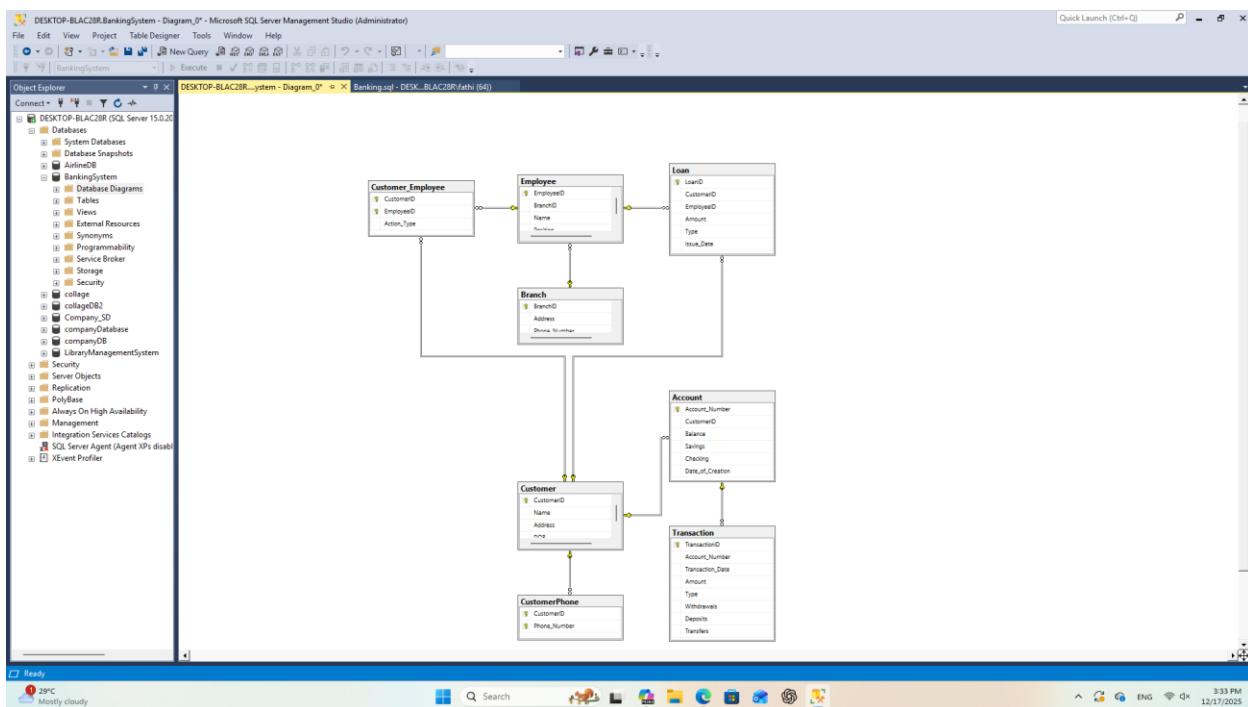
Query executed successfully.

Ready 29°C Mostly cloudy

Ln 136 Col 33 Ch 33 ING

DESKTOP-BLAC2BR (15.0 RTM) DESKTOP-BLAC2BR\lathi... BankingSystem 00:00:00 24 rows

3:30 PM 12/17/2025



Banking.sql - DESKTOP-BLAC28R.BankingSystem (DESKTOP-BLAC28R\fathi (64)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

BankingSystem

Object Explorer

Connect to: DESKTOP-BLAC28R (SQL Server 15.0.2214.1) [BankingSystem]

Databases

Tables

Views

External Resources

Synonyms

Procedures

Sequences

Broker

Storage

Security

collageDB

CustomerSD

companyDatabase

customerDB

LibraryManagementSystem

Security

Server Objects

Replication

PolyBase

Always On High Availability

Management

Integration Services Catalogs

SQL Server Agent (Agent XPs disabled)

Alerts Profiler

BankingSystem

Banking_diagram

Banking.sql - DESKTOP-BLAC28R\fathi (64)

Execute

Quick Launch (Ctrl+Q)

Object Explorer

Banking_diagram

Banking.sql - DESKTOP-BLAC28R\fathi (64)

Results Messages

Query executed successfully.

```
INSERT INTO [Transaction]
(Account_Number, Transaction_Date, Amount, Type, Withdrawals, Deposits, Transfers)
VALUES
(100000, '2023-01-05', 2000, 'Withdrawal', 1, 0, 0),
(100001, '2023-02-10', 5000, 'Deposit', 0, 1, 0),
(100002, '2023-03-12', 3000, 'Transfer', 0, 0, 1);

INSERT INTO Customer_Employee (CustomerID, EmployeeID, Action_Type)
VALUES
(1, 2, 'Loan Approval'),
(2, 1, 'Account Opening'),
(3, 3, 'Transaction Assistance');

-----select-----
SELECT * FROM Branch;
SELECT * FROM Account;
SELECT * FROM CustomerPhone;
SELECT * FROM Employee;
SELECT * FROM Account;
SELECT * FROM Transaction;
SELECT * FROM Customer_Employee;

SELECT c.FullName,
       cp.Phone_Number,
       a.Date_of_Creation AS MembershipStartDate
FROM Customer c
INNER JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID
LEFT JOIN Account a ON c.CustomerID = a.CustomerID;
```

	FullName	Phone_Number	MembershipStartDate
1	Fathyah Mafadi	91234567	2023-03-15
2	Ahmed Ali	92345678	2022-07-20
3	Sara Mohammed	93456789	2023-11-05

LN 143 Col 52 Ch 52 RS 3/34 Pg 12/17/2023 ENG

The screenshot shows the Microsoft SQL Server Management Studio (Administrator) interface. The Object Explorer on the left lists several databases, including 'BankingSystem'. The central pane displays a query window titled 'BankingSystem' with the following T-SQL script:

```
INSERT INTO [Transaction]
    Account_Number, Transaction_Date, Amount, Type, Withdrawals, Deposits, Transfers)
VALUES
    (100000, '2024-01-05', 2000, 'Withdrawal', 1, 0, 0),
    (100001, '2024-02-10', 5000, 'Deposit', 0, 1, 0),
    (100002, '2024-03-12', 3000, 'Transfer', 0, 0, 1);

INSERT INTO Customer_Employee (CustomerID, EmployeeID, Action_Type)
VALUES
    (1, 1, 'Loan approval'),
    (2, 1, 'Account Opening'),
    (3, 3, 'Transaction Assistance');

-----select-----
SELECT * FROM Branch;
SELECT * FROM Customer;
SELECT * FROM CustomerPhone;
SELECT * FROM Employee;
SELECT * FROM Account;
SELECT * FROM Transaction;
SELECT * FROM Customer_Employee;

SELECT c.Name AS FullName,
    cp.Phone Number,
    a.Date_of_Creation AS MembershipStartDate
FROM Customer c
LEFT JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID
LEFT JOIN Account a ON c.CustomerID = a.CustomerID;

SELECT LoanID, Amount, Type
    FROM Loan;
```

The 'Results' tab at the bottom shows the output of the last two SELECT statements:

	LoanID	Amount	Type
1	1	15000.00	Home Loan
2	2	8000.00	Car Loan
3	3	20000.00	Business Loan

The status bar at the bottom indicates 'Query executed successfully.' and shows the current date and time as 12/21/2023.

Banking.sql - DESKTOP-BLAC28R.BankingSystem (DESKTOP-BLAC28R\fathi (64)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

BankingSystem

Object Explorer

Connect to: DESKTOP-BLAC28R (SQL Server 15.0.2600.20)

Databases

Tables

Views

External Resources

Synonyms

Procedures

Service Broker

Storage

Security

collageDB

Collation

companySD

companyData

companyDB

LibraryManagementSystem

Security

Server Objects

Replication

Policy-Based

Always On High Availability

Management

Integration Services Catalogs

SQL Server Agent (Agent XPS disabled)

Alert Profiler

DESKEBT-BLAC28R... Banking diagram Banking.sql - DESKTOP-BLAC28R\fathi (64) = X

```
VALUES
(100000, '2024-01-05', 2000, 'Withdrawal', 1, 0, 0),
(100001, '2024-01-10', 5000, 'Deposit', 0, 1, 0),
(100002, '2024-03-12', 3000, 'Transfer', 0, 0, 1);

INSERT INTO Customer_Employee (CustomerID, EmployeeID, Action_Type)
VALUES
(1, 2, 'Loan Approval'),
(2, 1, 'Account Opening'),
(3, 3, 'Transaction Assistance');

-----select-----
SELECT * FROM Branch;
SELECT * FROM Customer;
SELECT * FROM CustomerPhone;
SELECT * FROM Employee;
SELECT * FROM Account;
SELECT * FROM Loan;
SELECT * FROM [Transaction];
SELECT * FROM Customer_Employee;

SELECT c.Name AS FullName,
       c.Phone_Number,
       a.Date_of_Creation AS MembershipStartDate
FROM Customer c
LEFT JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID
LEFT JOIN Account a ON c.CustomerID = a.CustomerID;

SELECT LoanID, Amount, Type
FROM Loan;

SELECT Account_Number
      , Balance = 0.05 * AnnualInterest
FROM Account;
```

100 %

Results Messages

	Account_Number	AnnualInterest
1	100000	500.0000
2	100001	1250.0000
3	100002	200.0000

Query executed successfully.

DESKTOP-BLAC28R (15.0 RTM) DESKTOP-BLAC28R\fathi ... BankingSystem 00:00:00 3 rows

Ready

3PC Mostly cloudy

Search

Ln 148 Col 1 Ch 1 RS

3:35 PM

12/17/2023

Banking.sql - DESKTOP-BLAC28R.BankingSystem (DESKTOP-BLAC28R\fathi (64)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

BankingSystem

Object Explorer

DESKE... - Banking diagram

Banking.sql - DESK... (64) -

```
VALUES
(1, 2, 'Loan Approval'),
(2, 1, 'Account Opening'),
(3, 3, 'Transaction Assistance');

-----else-----
SELECT * FROM Branch;
SELECT * FROM Customer;
SELECT * FROM CustomerPhone;
SELECT * FROM Employee;
SELECT * FROM Account;
SELECT * FROM Loan;
SELECT * FROM Transaction;
SELECT * FROM Customer_Employee;

SELECT c.Name AS Fullname,
       cp.Phone_Number,
       a.Date_of_Creation AS MembershipStartDate
FROM Customer c
LEFT JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID
LEFT JOIN Account a ON c.CustomerID = a.CustomerID;

SELECT LoanID, Amount, Type
FROM Loan;

SELECT Account_Number,
       Balance + 0.05 AS AnnualInterest
FROM Account;

SELECT DISTINCT c.CustomerID, c.Name
FROM Customer c
WHERE 1 = CustomerID - 1 CustomerID
      AND 1 = Amount - 100000;
```

Results

CustomerID	Name
1	Fatiya Afahdi
2	Sara Mohammed

Query executed successfully.

DESKTOP-BLAC28R (15.0 RTM) DESKTOP-BLAC28R\fathi ... BankingSystem 00:00:00 2 rows

Ready

39°C Mostly cloudy

Search

Ln 112 Col 1 Ch 1 INS

3:35 PM 12/17/2023

Banking.sql - DESKTOP-BLAC2BR.BankingSystem (DESKTOP-BLAC2BR\lathi (64)) - Microsoft SQL Server Management Studio (Administrator)

```

Object Explorer  DESKTOP-BLAC2BR - Banking diagram  Banking.sql - DESKTOP-BLAC2BR\lathi (64)  ×
File Edit View Query Project Tools Window Help
New Query Execute Find All Go To Object Explorer Properties Task List
BankingSystem
Object Explorer  DESKTOP-BLAC2BR - Banking diagram  Banking.sql - DESKTOP-BLAC2BR\lathi (64)  ×
File Edit View Query Project Tools Window Help
New Query Execute Find All Go To Object Explorer Properties Task List
BankingSystem

```

```

(3, 3, 'Transaction Assistance');

-----select-----  

SELECT * FROM Branch;  

SELECT * FROM Customer;  

SELECT * FROM CustomerPhone;  

SELECT * FROM Employee;  

SELECT * FROM Account;  

SELECT * FROM Loan;  

SELECT * FROM [Transaction];  

SELECT * FROM Customer_Employee;  

SELECT c.Name AS Fullname,  

cp.PhoneNumber  

, Date_of_Creation AS MembershipStartDate  

FROM Customer c  

LEFT JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID  

LEFT JOIN Account a ON c.CustomerID = a.CustomerID;  

SELECT LoanID, Amount, Type  

FROM Loan;  

SELECT Account_Number,  

Balance * 0.05 AS AnnualInterest  

FROM Account;  

SELECT DISTINCT c.CustomerID, c.Name  

FROM Customer c  

JOIN Loan l ON c.CustomerID = l.CustomerID  

WHERE l.Amount > 100000;  

SELECT * FROM Account  

WHERE Balance > 20000;

```

Results Messages

	Account_Number	CustomerID	Balance	Savings	Checking	Date_of_Creation
1	100001	2	25000.00	0	1	2022-07-20

Query executed successfully.

Ready 29°C Mostly cloudy Ln 157 Col 1 Ch 1 INS 3:35 PM 12/17/2025

Banking.sql - DESKTOP-BLAC2BR.BankingSystem (DESKTOP-BLAC2BR\lathi (64)) - Microsoft SQL Server Management Studio (Administrator)

```

Object Explorer  DESKTOP-BLAC2BR - Banking diagram  Banking.sql - DESKTOP-BLAC2BR\lathi (64)  ×
File Edit View Query Project Tools Window Help
New Query Execute Find All Go To Object Explorer Properties Task List
BankingSystem
Object Explorer  DESKTOP-BLAC2BR - Banking diagram  Banking.sql - DESKTOP-BLAC2BR\lathi (64)  ×
File Edit View Query Project Tools Window Help
New Query Execute Find All Go To Object Explorer Properties Task List
BankingSystem

```

```

(3, 3, 'Transaction Assistance');

-----select-----  

SELECT * FROM Branch;  

SELECT * FROM Customer;  

SELECT * FROM CustomerPhone;  

SELECT * FROM Employee;  

SELECT * FROM Account;  

SELECT * FROM Loan;  

SELECT * FROM [Transaction];  

SELECT * FROM Customer_Employee;  

SELECT c.Name AS Fullname,  

cp.PhoneNumber  

, Date_of_Creation AS MembershipStartDate  

FROM Customer c  

LEFT JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID  

LEFT JOIN Account a ON c.CustomerID = a.CustomerID;  

SELECT LoanID, Amount, Type  

FROM Loan;  

SELECT Account_Number,  

Balance * 0.05 AS AnnualInterest  

FROM Account;  

SELECT DISTINCT c.CustomerID, c.Name  

FROM Customer c  

JOIN Loan l ON c.CustomerID = l.CustomerID  

WHERE l.Amount > 100000;  

SELECT * FROM Account  

WHERE Balance > 20000;  

SELECT * FROM Account  

WHERE Date_of_Creation = 2023;

```

Results Messages

	Account_Number	CustomerID	Balance	Savings	Checking	Date_of_Creation
1	100000	1	10000.00	1	0	2023-03-15
2	100002	3	4000.00	1	1	2023-11-05

Query executed successfully.

Ready 29°C Mostly cloudy Ln 160 Col 1 Ch 1 INS 3:36 PM 12/17/2025

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to 'DESKTOP-BLAC28R\Iathu (64)' - BankingSystem. The Object Explorer on the left shows the database structure, including 'BankingSystem' and its tables like 'Customer', 'Employee', 'Loan', and 'Transaction'. The main window displays a T-SQL query and its execution results.

```
SELECT * FROM Customer;
SELECT * FROM CustomerPhone;
SELECT * FROM Employee;
SELECT * FROM EmployeeCount;
SELECT * FROM Loan;
SELECT * FROM [Transaction];
SELECT * FROM Customer_Employee;

--SELECT c.Name AS Fullname,
--      a.Account_Number,
--      a.Date_of_Creation AS MembershipStartDate
--FROM Customer c
--LEFT JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID
--LEFT JOIN Account a ON c.CustomerID = a.CustomerID;

--SELECT LoanID, Amount, Type
--FROM Loan;

--SELECT Account_Number,
--      Balance * 0.05 AS AnnualInterest
--FROM Account;

--SELECT DISTINCT c.CustomerID, c.Name
--FROM Customer c
--JOIN Loan l ON c.CustomerID = l.CustomerID
--WHERE l.Amount > 100000;

--SELECT * FROM Account
--WHERE Balance > 20000;

--SELECT * FROM Account
--WHERE YEAR([Date_of_Creation]) = 2023;

--SELECT * FROM Account
--ORDER BY Balance DESC;
```

Results grid:

Account_Number	CustomerID	Balance	Savings	Checking	Date_of_Creation
100001	2	25000.00	0	1	2022-07-20
100000	1	10000.00	1	0	2023-03-15
100002	3	4000.00	1	1	2023-11-05

Message bar at the bottom: 'Query executed successfully.'

The screenshot shows the Microsoft SQL Server Management Studio (Administrator) interface. The title bar indicates the connection is to 'Banking sql - DESKTOP-BLAC28R\BankingSystem (DESKTOP-BLAC28R\lathi (64)) - Microsoft SQL Server Management Studio (Administrator)'.

The Object Explorer sidebar on the left lists the database structure, including the 'BankingSystem' database and its tables like 'Customer', 'Employee', 'Loan', and 'Account'.

The main pane displays a T-SQL query and its results:

```
SELECT * FROM Customer_Employee;
SELECT c.Name AS FullName,
       cp.PhoneNumber,
       a.DateOfCreation AS MembershipStartDate
FROM Customer c
LEFT JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID
LEFT JOIN Account a ON c.CustomerID = a.CustomerID;

SELECT LoanID, Amount, Type
FROM Loan;

SELECT Account_Number,
       Balance * 0.05 AS AnnualInterest
FROM Account;

SELECT DISTINCT c.CustomerID, c.Name
FROM Customer c
JOIN Loan l ON c.CustomerID = l.CustomerID
WHERE l.Amount > 100000;

SELECT * FROM Account
WHERE Balance > 20000;

SELECT * FROM Account
WHERE YEAR(DateOfCreation) = 2023;

SELECT *
FROM Account
ORDER BY Balance DESC;

SELECT
       MAX(Balance) AS MaxBalance,
       MIN(Balance) AS MinBalance,
       AVG(Balance) AS AvgBalance
FROM Account;
```

The results pane shows the output of the last SELECT statement:

	MaxBalance	MinBalance	AvgBalance
1	25000.00	4000.00	13000.00000

At the bottom, a status bar shows 'Query executed successfully.' and the system tray includes icons for battery (39%), mostly cloudy weather, and network connectivity.

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to 'DESKTOP-BLAC28R\Bla' (64) - Microsoft SQL Server Management Studio (Administrator). The Object Explorer on the left shows the database structure for 'BankingSystem'. The central pane displays a query window with the following T-SQL code:

```
SELECT COUNT(*) AS TotalCustomers
FROM Customer;
```

The results pane shows the output of the query:

TotalCustomers
3

At the bottom, a status bar shows 'Query executed successfully.' and the system tray includes icons for battery (3PC), signal strength (ENG), and date/time (12/17/2023).

The screenshot shows the Microsoft SQL Server Management Studio (Administrator) interface. The title bar reads "Banking.sq - DESKTOP-BLAC2B8R.BankingSystem (DESKTOP-BLAC2B8R\lathi (64)) - Microsoft SQL Server Management Studio (Administrator)". The main area displays a query results window titled "DESKTOP-BLAC2B8R - Banking diagram". The query itself is as follows:

```
SELECT LoanID, Amount, Type
FROM Loan
LEFT JOIN Account a ON c.CustomerID = a.CustomerID;

SELECT Account_Number,
       Balance * 0.05 AS AnnualInterest
FROM Account;

SELECT DISTINCT c.CustomerID, c.Name
FROM Customer c
JOIN Loan l ON c.CustomerID = l.CustomerID
WHERE l.Amount > 100000;

SELECT * FROM Account
WHERE Balance > 20000;

SELECT * FROM Account
WHERE YEAR(Date_of_Creation) = 2023;

SELECT * FROM Account
ORDER BY Balance DESC;

SELECT
    MAX(Balance) AS MaxBalance,
    MIN(Balance) AS MinBalance,
    AVG(Balance) AS AvgBalance
FROM Account;

SELECT COUNT(*) AS TotalCustomers
FROM Customer;

SELECT c.CustomerID, c.Name
FROM Customer c
LEFT JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID
WHERE cp.Phone_Number IS NULL;
```

The results pane shows the following data:

CustomerID	Name
1	John Doe
2	Jane Smith
3	Bob Johnson
4	Sarah Williams
5	David Miller
6	Emily Davis
7	Michael Brown
8	Amy Green
9	Christopher White
10	Karen Lee
11	Matthew Wilson
12	Nicole Jones
13	Jeffrey Parker
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Banking.sql - DESKTOP-BLAC2BR.BankingSystem (DESKTOP-BLAC2BR\fathi (64)) - Microsoft SQL Server Management Studio (Administrator)

```

Object Explorer    DESKTOP-BLAC2BR - Banking diagram    Banking.sql - DESKTOP-BLAC2BR\fathi (64)  X
File Edit View Query Project Tools Window Help
New Query Execute Find All Go To Object Explorer Properties Task List
BankingSystem
  Object Explorer
  DESKTOP-BLAC2BR (SQL Server 15.0.2000.8)
    Databases
      System Databases
        Database Snapshots
        AirlineDB
        BankingSystem
          Database Diagrams
            Tables
            Views
            External Resources
            Synonyms
            Programmability
            Service Broker
            Storage
            Security
            collage
            collageDB
            Company_SD
            CompanyDatabase
            CompanyDB
            LibraryManagementSystem
            Security
            Server Objects
            Replication
            PolyBase
            Always On High Availability
            Management
            Integration Services Catalogs
            SQL Server Agent (Agent XPs disabled)
            XEvent Profiler

```

```

--SELECT Account_Number,
--       Balance * 0.05 AS AnnualInterest
--FROM Account;

--SELECT DISTINCT c.CustomerID, c.Name
--FROM Customer c
--JOIN Loan l ON c.CustomerID = l.CustomerID
--WHERE l.Amount > 100000;

--SELECT * FROM Account
--WHERE Balance > 200000;

--SELECT * FROM Account
--WHERE YEAR(Date_of_Creation) = 2023;

--SELECT * FROM Account
--ORDER BY Balance DESC;

--SELECT
--       MAX(Balance) AS MaxBalance,
--       MIN(Balance) AS MinBalance,
--       AVG(Balance) AS AvgBalance
--FROM Account;

--SELECT COUNT(*) AS TotalCustomers
--FROM Customer;

--SELECT c.CustomerID, c.Name
--FROM Customer c
--LEFT JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID
--WHERE cp.Phone_Number IS NULL;

--SELECT *
--FROM Transaction
--WHERE DATEDIFF(YEAR, Issue_Date, GETDATE()) < 10;

```

Results Messages

LoanID	CustomerID	EmployeeID	Amount	Type	Issue_Date
1	1	2	150000.00	Home Loan	2010-05-01
2	3	3	200000.00	Business Loan	2005-02-20

Query executed successfully.

Banking.sql - DESKTOP-BLAC2BR.BankingSystem (DESKTOP-BLAC2BR\fathi (64)) - Microsoft SQL Server Management Studio (Administrator)

```

Object Explorer    DESKTOP-BLAC2BR - Banking diagram    Banking.sql - DESKTOP-BLAC2BR\fathi (64)  X
File Edit View Query Project Tools Window Help
New Query Execute Find All Go To Object Explorer Properties Task List
BankingSystem
  Object Explorer
  DESKTOP-BLAC2BR (SQL Server 15.0.2000.8)
    Databases
      System Databases
        Database Snapshots
        AirlineDB
        BankingSystem
          Database Diagrams
            Tables
            Views
            External Resources
            Synonyms
            Programmability
            Service Broker
            Storage
            Security
            collage
            collageDB
            Company_SD
            CompanyDatabase
            CompanyDB
            LibraryManagementSystem
            Security
            Server Objects
            Replication
            PolyBase
            Always On High Availability
            Management
            Integration Services Catalogs
            SQL Server Agent (Agent XPs disabled)
            XEvent Profiler

```

```

VALUES
(1, 2, 150000, 'Home Loan', '2010-05-01'),
(2, 1, 80000, 'Car Loan', '2018-06-01'),
(3, 3, 200000, 'Business Loan', '2005-02-20');

INSERT INTO [Transaction]
(Account_Number, Transaction_Date, Amount, Type, Withdrawals, Deposits, Transfers)
VALUES
(100000, '2020-01-05', 2000, 'Withdrawal', 1, 0, 0),
(100001, '2020-02-10', 5000, 'Deposit', 0, 1, 0),
(100002, '2020-03-12', 3000, 'Transfer', 0, 0, 1);

--INSERT INTO Customer_Employee (CustomerID, EmployeeID, Action_type)
VALUES
(1, 'Loan Approval'),
(2, 'Account Opening'),
(3, 'Transaction Assistance');

-----select-----
SELECT * FROM Branch;
SELECT * FROM Customer;
SELECT * FROM CustomerPhone;
SELECT * FROM Employee;
SELECT * FROM Account;
SELECT * FROM Transaction;
SELECT * FROM Customer_Employee;

SELECT c.Name AS FullName,
       cp.Phone_Number,
       a.Date_of_Creation AS MembershipStartDate
FROM Customer c
LEFT JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID
LEFT JOIN Account a ON c.CustomerID = a.CustomerID;

```

Results Messages

CustomerID	Name	Address	DOB
1	Fathyah Afandi	Muscat	2000-01-01
2	Ahmed Ali	Salalah	1990-05-10
3	Sara Mohamed	Sohar	2001-09-15
4	Fathyah Afandi	Oman	2000-01-01

Query executed successfully.

The screenshot shows the Microsoft SQL Server Management Studio (Administrator) interface. The Object Explorer on the left lists several databases, including BankingSystem, which is currently selected. The central pane displays a query window with a partially executed T-SQL script. The script includes INSERT statements for Loan, Transaction, and Customer_Employee tables, along with a SELECT statement for the Branch table. Below the script, a results grid shows data for the Account_Number column. The status bar at the bottom indicates the query was executed successfully.

```
INSERT INTO Loan (CustomerID, EmployeeID, Amount, Type, Issue_Date)
VALUES
(1, 1, 150000, 'Home Loan', '2010-06-01'),
(2, 1, 80000, 'Car Loan', '2010-09-10'),
(3, 3, 200000, 'Business Loan', '2005-02-20');

INSERT INTO [Transaction]
(Account_Number, Transaction_Date, Amount, Type, Withdrawals, Deposits, Transfers)
VALUES
(100001, '2024-01-05', 2000, 'Withdrawal', 1, 0, 0),
(100001, '2024-02-10', 5000, 'Deposit', 0, 1, 0),
(100002, '2024-02-12', 3800, 'Transfer', 0, 0, 1);

INSERT INTO Customer_Employee (CustomerID, EmployeeID, Action_Type)
VALUES
(1, 2, 'Loan Approval'),
(2, 1, 'Account Opening'),
(3, 3, 'Transaction Assistance');

-----select-----
SELECT * FROM Branch;
SELECT * FROM Customer;
SELECT * FROM Employee;
SELECT * FROM Account;
SELECT * FROM Loan;
SELECT * FROM [Transaction];
SELECT * FROM Customer_Employee;

SELECT c.Name AS FullName,
       cp.Phone_Number,
       a.Date_of_Creation AS MembershipStartDate
  FROM Customer c
  JOIN Customer_Employee ce ON c.CustomerID = ce.CustomerID
  JOIN Employee e ON ce.EmployeeID = e.EmployeeID
  JOIN Account a ON ce.CustomerID = a.CustomerID
  JOIN [Transaction] t ON a.Account_Number = t.Account_Number
  JOIN Branch b ON t.Branch_ID = b.Branch_ID
  JOIN Customer cp ON cp.CustomerID = ce.CustomerID
 WHERE t.Transaction_Date = '2024-01-05' AND t.Type = 'Deposit'
```

Account_Number	CustomerID	Balance	Savings	Checking	Date_of_Creation
100000	1	100000	1	0	2023-03-15
200001	2	250000	0	1	2022-07-20
100002	3	40000	1	1	2023-11-05
100003	5	10000	1	0	2023-12-17

Query executed successfully.

The screenshot shows the Microsoft SQL Server Management Studio (Administrator) interface. The title bar indicates the connection is to 'Banking.sq - DESKTOP-BLAC28R.BankingSystem (DESKTOP-BLAC28R\lathi (64)) - Microsoft SQL Server Management Studio (Administrator)'.

The left sidebar displays the Object Explorer, which lists the following objects under the 'BankingSystem' database:

- Databases
- File and Filegroups
- Database Snapshots
- Logins
- Assemblies
- BankingSystem
- Database Diagrams
- Tables
- Views
- External Resources
- Syntax
- Serviceability
- Service Broker
- Storage
- Security
- Collations
- Collation_Sets
- Company_SD
- companyDatabase
- companyDB
- LibraryManagementSystem
- Securables
- Security Objects
- Replication
- Polybase
- AlwaysOn High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- Adventure Profiler

The main pane shows a 'Banking diagram' for the 'Banking.sq - DESKTOP-BLAC28R\lathi (64)' connection. Below the diagram, a query is being executed:

```
INSERT INTO [Transaction]
(Account_Number, Transaction_Date, Amount_Type, Withdrawals, Deposits, Transfers)
VALUES
(1, 2, 150000, 'Home Loan', '2010-06-01'),
(2, 1, 80000, 'Car Loan', '2018-09-18'),
(3, 5, 200000, 'business Loan', '2005-02-20');

INSERT INTO [Customer_Employee] (CustomerID, EmployeeID, Action_Type)
VALUES
(1, 2, 'Loan Approval'),
(2, 2, 'Account Opening'),
(3, 3, 'Transaction Assistance');

-----select-----
SELECT * FROM Branch;
SELECT * FROM Customer;
SELECT * FROM CustomerPhone;
SELECT * FROM Employee;
SELECT * FROM Account;
SELECT * FROM Transaction;
SELECT * FROM Customer_Employee;

SELECT c.Name AS FullName,
cp.Phone_Number,
a.Date_of_Creation AS MembershipStartDate
FROM Customer c
LEFT JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID
LEFT JOIN Account a ON c.CustomerID = a.CustomerID;
```

The results of the last query are displayed in a grid:

CustomerID	Name	Address	DOB
1	Fathya Alfoldi	Muscat	2000-01-01
2	Salah	Sohar	2000-01-01
3	Sam Mohamed	Sukar	2001-01-15
4	Fathya Alfoldi	Oman	2000-01-01
5	Fathya Alfoldi	Oman	2000-01-01
6	Ahmed Ali	NULL	1998-05-10

The status bar at the bottom right shows the system time as '12/17/2023 3:41 PM'.

The screenshot shows the Microsoft SQL Server Management Studio (Administrator) interface. The title bar indicates the connection is to 'Banking sql - DESKTOP-BLAC28R.BankingSystem (DESKTOP-BLAC28R\ethi (64)) - Microsoft SQL Server Management Studio (Administrator)'.

The left pane displays the 'Object Explorer' with the following tree structure:

- PSQLT0-BLAC28R (SQL Server 15.0.2020.1)
- Databases
 - System Databases
 - Database Snapshots
 - AdventureDB
 - AdventureLog
 - BankingSystem
 - Tables
 - Views
 - External Resources
 - Synonyms
 - Replicability
 - Service Broker
 - Storage
 - Security
- collageDB
- collageDB2
- Customer_SD
- companyDatabase
- companyDB
- LibraryManagementSystem
- Security
- Server Objects
- Session
- Toolbox
- Trusted
- AlwaysOn High Availability
- Management
- Integration Services Catalogs
 - SQL Server Agent (Agent XPs disabled)
- Agent Profiler

The right pane shows a 'BankingSystem - Banking diagram' tab with a query window containing the following T-SQL code:

```
VALUES ('100000', '2022-01-05', 2000, 'Withdrawal', 1, 0, 0),
       ('100001', '2022-01-10', 5000, 'Deposit', 0, 1, 0),
       ('100002', '2022-01-15', 3000, 'Transfer', 0, 0, 1);

INSERT INTO Customer_Employee (CustomerID, EmployeeID, Action_Type)
VALUES
(1, 2, 'Loan Approval'),
(2, 1, 'Account Opening'),
(3, 3, 'Transaction Assistance');

-----select-----
SELECT * FROM Branch;
SELECT * FROM Customer;
SELECT * FROM CustomerPhone;
LEFT JOIN Employee;
SELECT * FROM Account;
SELECT * FROM Loan;
SELECT * FROM [Transaction];
SELECT * FROM Customer_Employee;

SELECT c.Name AS FullName,
       a.Account_Number,
       a.Date_of_Creation AS MembershipStartDate
FROM Customer c
LEFT JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID
LEFT JOIN Account a ON c.CustomerID = a.CustomerID;

SELECT LoanID, Amount, Type
FROM Loan;

SELECT Account_Number,
       Balance * 0.05 AS AnnualInterest
FROM Account;
```

The results grid shows the following data:

	Account_Number	CustomerID	Balance	Savings	Checking	Date_of_Creation
1	100000	1	12000.00	1	0	2022-01-15
2	100001	2	25000.00	0	1	2022-01-20
3	100002	3	4200.00	1	1	2022-11-05
4	100003	5	12000.00	1	0	2022-12-17

At the bottom, a status bar shows 'Query executed successfully.' and the system status bar shows 'DESKTOP-BLAC28R (15.0 RTM) DESKTOP-BLAC28R\ethi ... BankingSystem 00:00:00 4 rows'.

```

Banking.sql - DESKTOP-BLAC2BR.BankingSystem (DESKTOP-BLAC2BR\yathi (64)) - Microsoft SQL Server Management Studio (Administrator)
File Edit View Query Project Tools Window Help
New Query Execute Find All Go To Object Explorer Properties Diagrams Results Messages
[+] BankingSystem [+] DESKTOP-BLAC2BR [+] BankingSystem
Object Explorer [+] DESKTOP-BLAC2BR - Banking diagram [+] Banking.sql - DESKTOP-BLAC2BR\yathi (64) *
Connect File Edit View Insert Tools Window Help
[+] BankingSystem [+] DESKTOP-BLAC2BR [+] BankingSystem
[+] Databases [+] System Databases [+] Database Snapshots
[+] AirlineDB [+] BankingSystem [+] Database Diagrams
[+] Tables [+] Views [+] External Resources
[+] Synonyms [+] Programmability [+] Service Broker
[+] Storage [+] Security [+] collage
[+] collageDB [+] Company_SD [+] CompanyDatabase
[+] CompanyDB [+] LibraryManagementSystem
[+] Security [+] Server Objects [+] Replication [+] PolyBase
[+] Always On High Availability [+] Management [+] Integration Services Catalogs
[+] SQL Server Agent (Agent XPs disabled) [+] XEvent Profiler
[+] Results [+] Messages
VALUES
(1, 'Loan Approval', 2000, 'Withdrawal', 1, 0, 0),
(100001, '2024-01-05', 2000, 'Withdrawal', 1, 0, 0),
(100002, '2024-02-10', 5000, 'Deposit', 0, 1, 0),
(100003, '2024-03-12', 3000, 'Transfer', 0, 0, 1);

INSERT INTO Customer_Employee (CustomerID, EmployeeID, Action_Type)
VALUES
(1, 'Loan Approval'),
(2, 1, 'Account Opening'),
(3, 3, 'Transaction Assistance');

-----select-----
SELECT * FROM Branch;
SELECT * FROM Customer;
SELECT * FROM CustomerPhone;
SELECT * FROM Employee;
SELECT * FROM Account;
SELECT * FROM Transaction;
SELECT * FROM Customer_Employee;

SELECT c.Name AS Fullname,
cp.Phone_Number,
a.Date_of_Creation AS MembershipStartDate
FROM Customer c
LEFT JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID
LEFT JOIN Account a ON c.CustomerID = a.CustomerID;

SELECT LoanID, Amount, Type
FROM Loan;

SELECT Account_Number,
Balance = 0.05 AS AnnualInterest
FROM Account;

-----Results-----
CustomerID Phone_Number
1 91234567
2 92345678
3 93456789

Query executed successfully.

```

```

Banking.sql - DESKTOP-BLAC2BR.BankingSystem (DESKTOP-BLAC2BR\yathi (64)) - Microsoft SQL Server Management Studio (Administrator)
File Edit View Query Project Tools Window Help
New Query Execute Find All Go To Object Explorer Properties Diagrams Results Messages
[+] BankingSystem [+] DESKTOP-BLAC2BR [+] BankingSystem
Object Explorer [+] DESKTOP-BLAC2BR - Banking diagram [+] Banking.sql - DESKTOP-BLAC2BR\yathi (64) *
Connect File Edit View Insert Tools Window Help
[+] BankingSystem [+] DESKTOP-BLAC2BR [+] BankingSystem
[+] Databases [+] System Databases [+] Database Snapshots
[+] AirlineDB [+] BankingSystem [+] Database Diagrams
[+] Tables [+] Views [+] External Resources
[+] Synonyms [+] Programmability [+] Service Broker
[+] Storage [+] Security [+] collage
[+] collageDB [+] Company_SD [+] CompanyDatabase
[+] CompanyDB [+] LibraryManagementSystem
[+] Security [+] Server Objects [+] Replication [+] PolyBase
[+] Always On High Availability [+] Management [+] Integration Services Catalogs
[+] SQL Server Agent (Agent XPs disabled) [+] XEvent Profiler
[+] Results [+] Messages
VALUES
(1, 2, 'Loan Approval'),
(2, 1, 'Account Opening'),
(3, 3, 'Transaction Assistance');

-----select-----
SELECT * FROM Branch;
SELECT * FROM Customer;
SELECT * FROM CustomerPhone;
SELECT * FROM Employee;
SELECT * FROM Account;
SELECT * FROM Loan;
SELECT * FROM Transaction;
SELECT * FROM Customer_Employee;

SELECT cp.FullName,
cp.Phone_Number,
a.Date_of_Creation AS MembershipStartDate
FROM Customer c
LEFT JOIN CustomerPhone cp ON c.CustomerID = cp.CustomerID
LEFT JOIN Account a ON c.CustomerID = a.CustomerID;

SELECT LoanID, Amount, Type
FROM Loan;

SELECT Account_Number,
Balance = 0.05 AS AnnualInterest
FROM Account;

SELECT DISTINCT c.CustomerID, c.Name
FROM Customer c
JOIN Loan l ON c.CustomerID = l.CustomerID
WHERE l.Amount > 100000;

-----Results-----
Account_Number CustomerID Balance Savings Checking Date_of_Creation
1 100000 1 12000.00 1 0 2023-01-15
2 100001 2 25000.00 0 1 2022-07-20
3 100002 3 4200.00 1 1 2023-11-05
4 100003 5 12000.00 1 0 2023-12-17

Query executed successfully.

```