

library.sql - DESKTOP-BLAC20R\LibraryManagementSystem (DESKTOP-BLAC20R\fathi (SQL)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

LibraryManagementSystem... Execute New Query Task Manager

Object Explorer

Connect to: DESKTOP-BLAC20R (SQL Server 15.0.2600.1)

Databases

- System Databases
- Database Snapshots
- AirlineDB
- collage
- collageDB
- Company\_SD
- companyDatabase
- companyDB
- LibraryManagementSystem
- Log
- Master
- Model
- Replication
- ReportServer
- ReportServerTempDB
- Always On High Availability
- Management
- Reportingservices Catalogs
- SQL Server Agent (Agent IPS disabled)
- XEvent Profiler

Results 100 %

Messages

```
library.sql - DESKTOP-BLAC20R\fathi (SQL) = x

-- INSERT INTO Staff (Full_Name, Position, Contact_Number, LibraryID)
VALUES
    ('Ahmed Al Balushi', 'Librarian', '99801122', 1),
    ('Fatima Al Harthy', 'Assistant Librarian', '99003344', 2),
    ('Khalid Al Siyabi', 'Library Manager', '99005566', 3);

-- INSERT INTO Member (Full_Name, Email, Phone_Number, Membership_Start_Date)
VALUES
    ('Sara Al Hassari', 'sara.hassari@gmail.com', '9715001122', '2022-06-15'),
    ('Omar Al Balooshi', 'omar.balooshi@gmail.com', '9710002233', '2023-02-20'),
    ('Laila Al Lawati', 'laila.lawati@gmail.com', '9715003344', '2021-09-18');

-- INSERT INTO Book (ISBN, Title, Genre, Price, Availability_Status, Shelf_Location, Rating, Comments, Review_Date, LibraryID)
VALUES
    ('978-1234567890', 'Data Structures in Python', 'Reference', 300, 1, 'A1', 5, 'Excellent book for beginners', '2019-05-20', 1),
    ('978-0987654321', 'Fictional Worlds', 'Fiction', 150, 1, 'B2', 4, 'Very engaging', '2021-08-15', 2),
    ('978-1122334455', 'Children Stories', 'Children', 80, 1, 'C3', 5, 'Fun and educational', '2020-03-18', 3);

-- INSERT INTO Loan (Loan_Date, Due_Date, Status, MemberID, BookID)
VALUES
    ('2023-12-01', '2023-12-15', 'Returned', 1, 1),
    ('2023-12-05', '2023-12-19', 'Issued', 2, 2),
    ('2023-12-10', '2023-12-24', 'Issued', 3, 3);

-- INSERT INTO Payment (Payment_Date, Amount, Payment_Method, LoanID)
VALUES
    ('2023-12-02', '15.00', 'Cash', 1),
    ('2023-12-06', '10.00', 'Card', 2),
    ('2023-12-11', '5.00', 'Online', 3);

-----
```

SELECT \* FROM Book;

Query executed successfully.

BookID	ISBN	Title	Genre	Price	availability_status	Shelf_Location	Rating	Comments	Review_Date	LibraryID	MemberID
1	2	978-1234567890	Data Structures in Python	300	00	A1	5	Excellent book for beginners	2019-05-20	1	NULL
2	3	978-0987654321	Fictional Worlds	150	00	B2	4	Very engaging	2021-08-15	2	NULL
3	4	978-1122334455	Children Stories	80	00	C3	5	Fun and educational	2020-03-10	3	NULL

DESKTOP-BLAC20R (15.0 RTM) DESKTOP-BLAC20R\fathi ... LibraryManagementSystem 00:00:00 3 rows

Ready

SPC Mostly cloudy

Search

Ln 130 Col 1 Ch 1 INS

12/17/2025 1:54 PM ENG Qx

library.sql - DESKTOP-BLAC28R\LibraryManagementSystem [DESKTOP-BLAC28R\fathi (SS)] - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools New Query Object Explorer

Execute ✓

Object Explorer

- libRARYMANAGEMENTSYSTEM
- Connect
- Databases
  - LIBRARYMANAGEMENTSYSTEM
  - Databases
  - System Databases
  - Database Snapshots
- AirlineDB
- collegeDB1
- collegeDB2
- Company\_SD
- companyDatabase
- companyOB
- LibraryManagementSystem
- master
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Information Services Catalog
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

libery.sql - DESKTOP-BLAC28R\fathi (SS) - Microsoft SQL Server Management Studio (Administrator)

INSERT INTO Staff (Full\_Name, Position, Contact\_Number, LibraryID)  
VALUES  
('Ahmed Al Balushi', 'Librarian', '99001122', 1),  
('Fatima Al Harthy', 'Assistant Librarian', '990003344', 2),  
('Khalid Al Siyabi', 'Library Manager', '990005566', 3);

INSERT INTO Member (Full\_Name, Email, Phone\_Number, Membership\_Start\_Date)  
VALUES  
('Sara Al Masmari', 'sara.masmari@email.com', '9715000123', '2022-06-15'),  
('Omar Al Kausai', 'omar.reakhi@email.com', '9711000233', '2023-02-30'),  
('Laila Al Lamati', 'laila.lamati@email.com', '9715003344', '2021-09-10');

INSERT INTO Book (ISBN, Title, Genre, Price, Availability\_Status, Shelf\_Location, Rating, Comments, Review\_Date, LibraryID)  
VALUES  
('978-1234567890', 'Data Structures in Python', 'Reference', 300, 1, 'A1', 5, 'Excellent book for beginners', '2019-05-29', 1),  
('978-0987654321', 'Fictional Worlds', 'Fiction', 150, 1, 'B2', 4, 'Very engaging', '2021-08-15', 2),  
('978-1122334455', 'Children Stories', 'Children', 80, 1, 'C3', 5, 'Fun and educational', '2020-03-18', 3);

INSERT INTO Loan (Loan\_Date, Due\_Date, Status, MemberID, BookID)  
VALUES  
('2023-12-01', '2023-12-15', 'Returned', 1, 1),  
('2023-12-05', '2023-12-19', 'Issued', 2, 2),  
('2023-12-10', '2023-12-24', 'Issued', 3, 3);

INSERT INTO Payment (Payment\_Date, Amount, Payment\_Method, LoanID)  
VALUES  
('2023-12-02', 15.00, 'Cash', 1),  
('2023-12-06', 10.00, 'Card', 2),  
('2023-12-11', 5.00, 'Online', 3);

-----  
SELECT \* FROM Book;  
SELECT \* FROM Library;  
SELECT \* FROM Staff;  
SELECT \* FROM Member;  
SELECT \* FROM Loan;  
SELECT \* FROM Payment;

Results

LibraryID	Name	Location	Contact_Number	Established_Year
1	Central Library	Muscat, Oman	24445555	1995
2	Al Haq Library	Nizwa, Oman	24446666	2005
3	Sultan Qaboos Library	Salalah, Oman	24447777	2010

Query executed successfully.

LIBRARYMANAGEMENTSYSTEM 00:00:00 3 rows

Ready

100 %

12/17/2025



library.sql - DESKTOP-BLAC28R\LibraryManagementSystem (DESKTOP-BLAC28R\fathi [62]) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q)

Object Explorer

library.sql - DESKTOP-BLAC28R\fathi [62] > X

```
INSERT INTO Staff (Full_Name, Position, Contact_Number, LibraryID)
VALUES ('Ahmed Al Balushi', 'Librarian', '99001122', 1),
('Fatima Al Harthy', 'Assistant Librarian', '99003344', 2),
('Khalid Al Siyabi', 'Library Manager', '99005566', 3);

INSERT INTO Member (Full_Name, Email, Phone_Number, Membership_Start_Date)
VALUES ('Sara Al Maskari', 'sara.mskari@gmail.com', '9711801123', '2022-06-15'),
('Omar Al Raheeb', 'omar.raheeb@gmail.com', '9711802233', '2023-02-20'),
('Lalla Al Lwati', 'lalla.lwati@gmail.com', '9711803344', '2021-09-18');

INSERT INTO Book (ISBN, Title, Genre, Price, Availability_Status, Shelf_Location, Rating, Comments, Review_Date, LibraryID)
VALUES ('978-1234567890', 'Data Structures in Python', 'Reference', 300, 1, 'AI', 5, 'Excellent book for beginners', '2019-05-29', 1),
('978-9876543211', 'Fictional Worlds', 'Fiction', 150, 1, 'SF', 4, 'Very engaging', '2021-08-15', 2),
('978-1232334455', 'Children Stories', 'Children', 80, 1, 'CS', 3, 'Fun and educational', '2020-03-18', 3);

INSERT INTO Loan (Loan_Date, Due_Date, Status, MemberID, BookID)
VALUES ('2023-12-01', '2023-12-15', 'Returned', 1, 1),
('2023-12-05', '2023-12-19', 'Issued', 2, 2),
('2023-12-10', '2023-12-24', 'Issued', 3, 3);

INSERT INTO Payment (Payment_Date, Amount, Payment_Method, LoanID)
VALUES ('2023-12-02', 15.00, 'Cash', 1),
('2023-12-06', 10.00, 'Card', 2),
('2023-12-11', 5.00, 'Online', 3);

-- SELECT * FROM Book;
-- SELECT * FROM Library;
-- SELECT * FROM Member;
-- SELECT * FROM Header;
-- SELECT * FROM Loan;
-- SELECT * FROM Payment;
```

Results Messages

	LoanID	Loan_Date	Due_Date	Return_Date	Status	MemberID	BookID
1	1	2023-12-01	2023-12-15	NULL	Returned	1	1
2	2	2023-12-05	2023-12-19	NULL	Issued	2	2
3	3	2023-12-10	2023-12-24	NULL	Issued	3	3

Query executed successfully.

```

library.sql - DESKTOP-BLAC28R.LibraryManagementSystem (DESKTOP-BLAC28R\fatih (82)) - Microsoft SQL Server Management Studio (Administrator)
File Edit View Query Project Tools Window Help
New Query Execute
LibraryManagementSystem
Object Explorer
Connect File Database System Databases Database Snapshots
AirlinDB collage collageDB Company_SD CompanyDatabase LibraryManagementSystem
Security Server Objects Replication PolyBase Always On High Availability Management Integration Services Catalogs SQL Server Agent (Agent XPs disabled) XEvent Profiler
Object Explorer
library.sql - DESKTOP-BLAC28R\fatih (82) *
INSERT INTO Member (Full_Name, Email, Phone_Number, Membership_Start_Date)
VALUES
('Sara Al Maskari', 'sara.maskari@email.com', '9711801122', '2022-06-15'),
('Omar Al Rawahi', 'omar.rawahi@email.com', '9711802233', '2023-02-20'),
('Lala Al Latifi', 'lala.latifi@email.com', '9711803344', '2021-09-10');

INSERT INTO Book (ISBN, Title, Genre, Price, Availability_Status, Shelf_Location, Rating, Comments, Review_Date, LibraryID)
VALUES
('978-1234567890', 'Data Structures in Python', 'Reference', 300, 1, 'AI', 5, 'Excellent book for beginners', '2019-05-20', 1),
('978-0987654321', 'Fictional Worlds', 'Fiction', 150, 1, 'B2', 4, 'Very engaging', '2021-08-15', 2),
('978-1122334455', 'Children Stories', 'Children', 80, 1, 'C1', 5, 'Fun and educational', '2020-03-10', 3);

INSERT INTO Loan (Loan_Date, Due_Date, Status, MemberID, BookID)
VALUES
('2023-12-01', '2023-12-15', 'Returned', 1, 1),
('2023-12-05', '2023-12-19', 'Issued', 2, 2),
('2023-12-10', '2023-12-24', 'Issued', 3, 3);

INSERT INTO Payment (Payment_Date, Amount, Payment_Method, LoanID)
VALUES
('2023-12-02', 15.00, 'Cash', 1),
('2023-12-05', 10.00, 'Card', 2),
('2023-12-11', 5.00, 'Online', 3);

-----
SELECT * FROM Book;
SELECT * FROM Library;
SELECT * FROM Staff;
SELECT * FROM Member;
SELECT * FROM Loan;
SELECT * FROM Payment;

SELECT Title, Genre, Availability_Status FROM Book;

```

Results

Title	Genre	Availability_Status
Data Structures in Python	Reference	1
Fictional Worlds	Fiction	1
Children Stories	Children	1

Query executed successfully.

```

library.sql - DESKTOP-BLAC28R.LibraryManagementSystem (DESKTOP-BLAC28R\fatih (82)) - Microsoft SQL Server Management Studio (Administrator)
File Edit View Query Project Tools Window Help
New Query Execute
LibraryManagementSystem
Object Explorer
Connect File Database System Databases Database Snapshots
AirlinDB collage collageDB Company_SD CompanyDatabase LibraryManagementSystem
Security Server Objects Replication PolyBase Always On High Availability Management Integration Services Catalogs SQL Server Agent (Agent XPs disabled) XEvent Profiler
Object Explorer
library.sql - DESKTOP-BLAC28R\fatih (82) *
INSERT INTO Member (Full_Name, Email, Phone_Number, Membership_Start_Date)
VALUES
('Sara Al Maskari', 'sara.maskari@email.com', '9711801122', '2022-06-15'),
('Omar Al Rawahi', 'omar.rawahi@email.com', '9711802233', '2023-02-20'),
('Lala Al Latifi', 'lala.latifi@email.com', '9711803344', '2021-09-10');

INSERT INTO Book (ISBN, Title, Genre, Price, Availability_Status, Shelf_Location, Rating, Comments, Review_Date, LibraryID)
VALUES
('978-1234567890', 'Data Structures in Python', 'Reference', 300, 1, 'AI', 5, 'Excellent book for beginners', '2019-05-20', 1),
('978-0987654321', 'Fictional Worlds', 'Fiction', 150, 1, 'B2', 4, 'Very engaging', '2021-08-15', 2),
('978-1122334455', 'Children Stories', 'Children', 80, 1, 'C1', 5, 'Fun and educational', '2020-03-10', 3);

INSERT INTO Loan (Loan_Date, Due_Date, Status, MemberID, BookID)
VALUES
('2023-12-01', '2023-12-15', 'Returned', 1, 1),
('2023-12-05', '2023-12-19', 'Issued', 2, 2),
('2023-12-10', '2023-12-24', 'Issued', 3, 3);

INSERT INTO Payment (Payment_Date, Amount, Payment_Method, LoanID)
VALUES
('2023-12-02', 15.00, 'Cash', 1),
('2023-12-05', 10.00, 'Card', 2),
('2023-12-11', 5.00, 'Online', 3);

-----
SELECT * FROM Book;
SELECT * FROM Library;
SELECT * FROM Staff;
SELECT * FROM Member;
SELECT * FROM Loan;
SELECT * FROM Payment;

SELECT Full_Name, Email, Membership_Start_Date FROM Member;

```

Results

Full_Name	Email	Membership_Start_Date
Sara Al Maskari	sara.maskari@email.com	2022-06-15
Omar Al Rawahi	omar.rawahi@email.com	2023-02-20
Lala Al Latifi	lala.latifi@email.com	2021-09-10

Query executed successfully.

library.sql - DESKTOP-BLAC28R\fathi [62]\* < x

```
File Edit View Query Project Tools Window Help
LibraryManagementSystem |> Execute |> SQL Server Object Explorer |> Object Explorer |> Results |> Messages

Object Explorer
Connect -> 
  + DESKTOP-BLAC28R (SQL Server 15.0.2600)
    + Databases
      + System Databases
      + Database Snapshots
    + Logins
    + Security
    + Configuration
    + collationDB
    + Company_SD
    + companyDatabase
    + companyDB
    + LibraryManagementSystem
    + Logins
    + Server Objects
    + Replication
    + PolyBase
    + Always On High Availability
    + Management
    + Microsoft System Services Catalogs
      + SQL Server Agent (Agent XPs disabled)
    + XEvent Profiler

library.sql - DESKTOP-BLAC28R\fathi [62]* < x

--INSERT INTO Member (Full_Name, Email, Phone_Number, Membership_Start_Date)
VALUES
('Sara Al Haskari', 'sara.nasrallah@email.com', '9711081122', '2022-06-15'),
('Omar Al Raaihi', 'omar.raaihi@email.com', '9711082233', '2023-06-20'),
('Laila Al Latifi', 'laila.latifi@email.com', '9711083344', '2021-09-18');

--INSERT INTO Book (ISBN, Title, Genre, Price, Availability_Status, Shelf_Location, Rating, Comments, Review_Date, LibraryID)
VALUES
('978-1234567890', 'Data Structures in Python', 'Reference', 300, 1, 'A1', 5, 'Excellent book for beginners', '2019-05-20', 1),
('978-1234567891', 'Fictional worlds', 'Fiction', 150, 1, 'B2', 4, 'Very engaging', '2021-06-15', 2),
('978-1232334455', 'Children Stories', 'Children', 80, 1, 'C3', 5, 'Fun and educational', '2020-03-18', 3);

--INSERT INTO Loan (Loan_Date, Due_Date, Status, MemberID, BookID)
VALUES
('2023-12-01', '2023-12-15', 'Returned', 1, 1),
('2023-12-05', '2023-12-19', 'Issued', 2, 2),
('2023-12-10', '2023-12-24', 'Issued', 3, 3);

--INSERT INTO Payment (Payment_Date, Amount, Payment_Method, LoanID)
VALUES
('2023-12-02', 15.00, 'Cash', 1),
('2023-12-06', 10.00, 'Card', 2),
('2023-12-11', 5.00, 'Online', 3);

-----
SELECT * FROM Book;
SELECT * FROM Library;
SELECT * FROM Staff;
SELECT * FROM Member;
SELECT * FROM Loan;
SELECT * FROM Payment;

SELECT Title, Genre, Availability_Status FROM Book;
SELECT Full_Name, Email, Membership_Start_Date FROM Member;
SELECT Title, Price AS BookPPrice FROM Book;
SELECT * FROM Book
WHERE Price > 250;

100 % <-
Results |> Messages
BookID ISBN Title Genre Price availability_status Shelf_Location Rating Comments Review_Date LibraryID MemberID
1 978-1234567890 Data Structures in Python Reference 300.00 1 A1 5 Excellent book for beginners 2019-05-20 1 NULL
```



library.sql - DESKTOP-BLAC28R\kathi (S2) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

LibraryManagementSystem - Execute

Object Explorer

Connect to... Help

Books

Databases

System Databases

Database Snapshots

AirlineDB

BookDB

collegeDB2

CompanySD

companyDatabase

companyDB

companyDB

LibraryManagementSystem

Logins

Replication

Role

Server Objects

Table

Always On High Availability

Management

Management Services Catalogs

SQL Server Agent (Agent IP's disabled)

Traces

XEvent Profiler

library.sql - DESKTOP-BLAC28R\kathi (S2) - Microsoft SQL Server Management Studio (Administrator)

1. `INSERT INTO Book (ISBN, Title, Author, Price, Genre, Availability_Status, Shelf_Location, Rating, Comments, Review_Date, LibraryID, MemberID)`

2. `VALUES ('978-1234567890', 'Data Structures in Python', 'Reference', 300.00, 1, 'A1', 5, 'Excellent book for beginners', '2019-05-20', 1, NULL);`

3. `VALUES ('978-0987654321', 'Fictional Worlds', 'Fiction', 180.00, 1, 'B2', 4, 'Very engaging', '2021-08-15', 2, NULL);`

4. `VALUES ('978-1232334455', 'Children Stories', 'Children', 80.00, 1, 'C3', 5, 'Fun and educational', '2020-03-18', 3, NULL);`

5. `INSERT INTO Loan (Loan_Date, Due_Date, Status, MemberID, BookID)`

6. `VALUES ('2023-12-01', '2023-12-15', 'Returned', 1, 1),`

7. `('2023-12-05', '2023-12-19', 'Issued', 2, 2),`

8. `('2023-12-10', '2023-12-24', 'Issued', 3, 3);`

9. `INSERT INTO Payment (Payment_Date, Amount, Payment_Method, LoanID)`

10. `VALUES ('2023-12-03', 15.00, 'Cash', 1),`

11. `('2023-12-05', 10.00, 'Card', 2),`

12. `('2023-12-11', 5.00, 'Online', 3);`

13. `-----`

14. `SELECT * FROM Book;`

15. `SELECT * FROM Library;`

16. `SELECT * FROM Staff;`

17. `SELECT * FROM Member;`

18. `SELECT * FROM Loan;`

19. `SELECT * FROM Payment;`

20. `-----`

21. `SELECT Title, Genre, Availability_Status FROM Book;`

22. `SELECT Full_Name, Email, Membership_Start_Date FROM Member;`

23. `SELECT Title, Price AS BookPrice FROM Book;`

24. `SELECT * FROM Payment;`

25. `WHERE Price > 250;`

26. `-----`

27. `SELECT * FROM Member;`

28. `WHERE Membership_Start_Date < '2023-01-01';`

29. `SELECT * FROM Book;`

30. `WHERE YEAR(Review_Date) > 2018;`

31. `-----`

32. `SELECT * FROM Book`

33. `ORDER BY Price DESC;`

Results

Messages

100 %

BookID	ISBN	Title	Genre	Price	availability_status	Shelf_Location	Rating	Comments	Review_Date	LibraryID	MemberID
1	2	978-1234567890	Data Structures in Python	300.00	1	A1	5	Excellent book for beginners	2019-05-20	1	NULL
2	3	978-0987654321	Fictional Worlds	180.00	1	B2	4	Very engaging	2021-08-15	2	NULL
3	4	978-1232334455	Children Stories	80.00	1	C3	5	Fun and educational	2020-03-18	3	NULL

Query executed successfully.

library.sql - DESKTOP-BLAC28R\fatih [BD2] - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

LibraryManagementSystem | Execute

Object Explorer

Connect - ¥

File Explorer

Task List

Quick Launch (Ctrl+Q)

library.sql - DESKTOP-BLAC28R\fatih [BD2] - Microsoft SQL Server Management Studio (Administrator)

-----  
-- Inserting Data into Book Table  
-----  
INSERT INTO Book (Title, Author, Description, Price, Quantity)  
VALUES  
('The Great Gatsby', 'F. Scott Fitzgerald', 'A classic novel by F. Scott Fitzgerald, set in the 1920s. It follows the story of Jay Gatsby, a man who is determined to win back his former love, Nick Carraway.', 15.99, 10),  
('Harry Potter and the Philosopher's Stone', 'J.K. Rowling', 'The first book in the Harry Potter series, introducing the young wizard Harry Potter to the magical world of Hogwarts School of Witchcraft and Wizardry.', 12.99, 20),  
('The Catcher in the Rye', 'J.D. Salinger', 'A coming-of-age novel about Holden Caulfield, a teenage boy who rebels against society and his own family. It is known for its distinctive narrative style and social commentary.', 14.99, 8),  
('The Lord of the Rings: The Fellowship of the Ring', 'J.R.R. Tolkien', 'The first volume of the epic fantasy trilogy, detailing the quest of Frodo Baggins and his Fellowship to destroy the One Ring and save Middle-earth from the darkness of Sauron.', 19.99, 15),  
('The Hobbit', 'J.R.R. Tolkien', 'A prequel to The Lord of the Rings, following the adventures of Bilbo Baggins as he sets out on a dangerous journey to reclaim his home and help the矮人 (Dwarves) fight the dragon Smaug for their lost treasure.', 14.99, 12),  
('The Alchemist', 'Paulo Coelho', 'A spiritual fable about a shepherd boy named Santiago who embarks on a journey to find his personal legend, ultimately discovering the magic of the universe and the power of the heart.', 9.99, 18),  
('The Handmaid's Tale', 'Margaret Atwood', 'A dystopian novel set in a totalitarian society where women are reduced to mere reproductive units for the ruling class. It explores themes of gender, power, and resistance.', 11.99, 14),  
('The Diary of Anne Frank', 'Anne Frank', 'The diary of a young girl hidden from the Nazis during World War II, providing a powerful and intimate look into her thoughts, fears, and hopes during a time of great suffering and uncertainty.', 8.99, 10),  
('Charlotte's Web', 'E.B. White', 'A classic children's book about a pig named Wilbur who forms a strong bond with a spider named Charlotte, and the importance of friendship and family.', 7.99, 12),  
('The Cat in the Hat', 'Dr. Seuss', 'A beloved children's book featuring the mischievous Cat in the Hat, who comes to visit a bored couple's quiet afternoon at home.', 6.99, 15);  
-----  
-- Inserting Data into Loan Table  
-----  
INSERT INTO Loan (Loan\_Date, Due\_Date, Status, Member\_ID, BookID)  
VALUES  
('2023-12-01', '2023-12-15', 'Returned', 1, 1),  
('2023-12-05', '2023-12-19', 'Issued', 2, 2),  
('2023-12-10', '2023-12-24', 'Issued', 3, 3);  
-----  
-- Inserting Data into Payment Table  
-----  
INSERT INTO Payment (Payment\_Date, Amount, Payment\_Method, LoanID)  
VALUES  
('2023-12-02', 15.00, 'Cash', 1),  
('2023-12-05', 10.00, 'Card', 2),  
('2023-12-11', 5.00, 'Online', 3);  
-----  
-- Selecting Data from Book Table  
-----  
SELECT \* FROM Book;  
-----  
-- Selecting Data from Library Table  
-----  
SELECT \* FROM Library;  
-----  
-- Selecting Data from Staff Table  
-----  
SELECT \* FROM Staff;  
-----  
-- Selecting Data from Member Table  
-----  
SELECT \* FROM Member;  
-----  
-- Selecting Data from Loan Table  
-----  
SELECT \* FROM Loan;  
-----  
-- Selecting Data from Payment Table  
-----  
SELECT \* FROM Payment;  
-----  
-- Advanced Query Examples  
-----  
SELECT Title, Genre, Availability\_Status FROM Book;  
SELECT Full\_Name, Email, Membership\_Start\_Date FROM Member;  
SELECT Book\_ID, Price AS BookPrice FROM Book;  
-----  
-- Subquery Example  
-----  
SELECT \* FROM Book  
WHERE Price > 250;  
-----  
-- JOIN Example  
-----  
SELECT \* FROM Member  
INNER JOIN Loan ON Member.Member\_ID = Loan.Member\_ID  
WHERE Loan.Loan\_Start\_Date < '2023-01-01';  
-----  
-- GROUP BY Example  
-----  
SELECT \* FROM Book  
WHERE YEAR(Review\_Date) > 2018;  
-----  
-- ORDER BY Example  
-----  
SELECT MAX(Price) AS MaxPrice,  
MIN(Price) AS MinPrice,  
AVG(Price) AS AvgPrice  
FROM Book;

100 %

Results Messages

	MaxPrice	MinPrice	AvgPrice
1	300.00	80.00	176.66666

Query executed successfully.

DESKTOP-BLAC28R (15.0 RTM) DESKTOP-BLAC28R\fatih ... LibraryManagementSystems 00:00:00 1 rows

Ready

3PC Mostly cloudy

Search

Ln 151 Col 11 Ch 11 RS

2:03 PM

12/17/2023



The screenshot shows a Microsoft SQL Server Management Studio (SSMS) window with the following details:

- Connection:** library.sql - DESKTOP-BLAC28R.LibraryManagementSystem (DESKTOP-BLAC28R\faithi (B2)) - Microsoft SQL Server Management Studio (Administrator)
- Object Explorer:** Shows the database structure for "LibraryManagementSystem".
- Query Editor:** A large block of T-SQL code is being executed. The code includes:
  - An INSERT INTO statement for the "Payment" table.
  - A series of SELECT statements from various tables: Book, Staff, Member, Loan, Payment, and BookPrice.
  - A complex query involving joins and subqueries to calculate statistics like MaxPrice, MinPrice, and AvgPrice.
  - A final SELECT statement filtering books by title.
- Status Bar:** Shows "100 %" completion, "Results" selected, and a message "Query executed successfully."
- Bottom Status:** Includes icons for ready, SPC, Mostly cloudy, and network connectivity.
- Taskbar:** Shows the taskbar with the SSMS icon, search bar, and system tray with battery, signal, and volume icons.

library.sql - DESKTOP-BLAC28R\LibraryManagementSystem (DESKTOP-BLAC28R\faifi [62]) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q)

Object Explorer

library.sql - DESKTOP-BLAC28R\faifi [62] \* < x

Connect - <img alt="Filegroup

```

library.sql - DESKTOP-BLAC28R\LibraryManagementSystem (DESKTOP-BLAC28R\fathi (82)) - Microsoft SQL Server Management Studio (Administrator)
File Edit View Query Project Tools Window Help
New Query Execute
Object Explorer
File Explorer
Task List
Quick Launch (Ctrl+Q)
LIBRARYMANAGEMENTSYSTEM
library.sql - DESKTOP-BLAC28R\fathi (82) *
SELECT * FROM Book;
SELECT * FROM Library;
SELECT * FROM Staff;
SELECT * FROM Member;
SELECT * FROM Loan;
SELECT * FROM Payment;

SELECT Title, Genre, Availability_Status FROM Book;
SELECT Full_Name, Email, Membership_Start_Date FROM Member;
SELECT Title, Price AS BookPrice FROM Book;
SELECT * FROM Book
WHERE Price > 250;
SELECT * FROM Book
WHERE Membership_Start_Date < '2023-01-01';
SELECT * FROM Book
WHERE YEAR(Review_Date) > 2018;
SELECT * FROM Book
ORDER BY Price DESC;
SELECT MAX(Price) AS MaxPrice,
MIN(Price) AS MinPrice,
AVG(Price) AS AvgPrice
FROM Book;
SELECT COUNT(*) AS TotalBooks FROM Book;
SELECT * FROM Book
WHERE Email IS NULL;
SELECT * FROM Book
WHERE Title LIKE '%Data%';

SET IDENTITY_INSERT Member ON;

INSERT INTO Member (MemberID, Full_Name, Email, Phone_Number, Membership_Start_Date)
VALUES
(405, 'Fathiya Alfaidi', 'fathiya.alfaidi@email.com', '91234567', GETDATE());

SET IDENTITY_INSERT Member OFF;

INSERT INTO Loan (Loan_Date, Due_Date, Status, MemberID, BookID)
VALUES (GETDATE(), DATEADD(DAY, 14, GETDATE()), 'Issued', 405, 101);

100 %
Results Messages
LoanID Loan_Date Due_Date Return_Date Status MemberID BookID
1 1 2023-12-01 2023-12-15 NULL 1 1
2 2 2023-12-05 2023-12-19 NULL Issued 2 2
3 3 2023-12-10 2023-12-24 NULL Issued 3 3
4 4 2025-12-17 2025-12-31 NULL Issued 405 1011

Query executed successfully.

```

DESKTOP-BLAC28R (15.0 RTM) | DESKTOP-BLAC28R\fathi ... | LibraryManagementSystem | 00:00:00 | 4 rows

```

library.sql - DESKTOP-BLAC28R\LibraryManagementSystem (DESKTOP-BLAC28R\fathi (82)) - Microsoft SQL Server Management Studio (Administrator)
File Edit View Query Project Tools Window Help
New Query Execute
Object Explorer
File Explorer
Task List
Quick Launch (Ctrl+Q)
LIBRARYMANAGEMENTSYSTEM
library.sql - DESKTOP-BLAC28R\fathi (82) *
SELECT * FROM Book;
SELECT * FROM Library;
SELECT * FROM Staff;
SELECT * FROM Member;
SELECT * FROM Loan;
SELECT * FROM Payment;

SELECT Title, Genre, Availability_Status FROM Book;
SELECT Full_Name, Email, Membership_Start_Date FROM Member;
SELECT Title, Price AS BookPrice FROM Book;
SELECT * FROM Book
WHERE Price > 250;
SELECT * FROM Book
WHERE Membership_Start_Date < '2023-01-01';
SELECT * FROM Book
WHERE YEAR(Review_Date) > 2018;
SELECT * FROM Book
ORDER BY Price DESC;
SELECT MAX(Price) AS MaxPrice,
MIN(Price) AS MinPrice,
AVG(Price) AS AvgPrice
FROM Book;
SELECT COUNT(*) AS TotalBooks FROM Book;
SELECT * FROM Member
WHERE Email IS NULL;
SELECT * FROM Book
WHERE Title LIKE '%Data%';

SET IDENTITY_INSERT Member ON;

INSERT INTO Member (MemberID, Full_Name, Email, Phone_Number, Membership_Start_Date)
VALUES
(405, 'Fathiya Alfaidi', 'fathiya.alfaidi@email.com', '91234567', GETDATE());

SET IDENTITY_INSERT Member OFF;

INSERT INTO Loan (Loan_Date, Due_Date, Status, MemberID, BookID)
VALUES (GETDATE(), DATEADD(DAY, 14, GETDATE()), 'Issued', 405, 101);

INSERT INTO Member (Full_Name, Email, Phone_Number, Membership_Start_Date)
VALUES ('wafa', NULL, NULL, GETDATE());

100 %
Results Messages
MemberID Full_Name Email Phone_Number Membership_Start_Date
1 1 Sara Al Maskari sara.maskari@mail.com 9711001122 2022-06-15
2 2 Omar Al Rawabi omar.rawabi@mail.com 9711002233 2023-02-20
3 3 Lale Al Lewai lala.lewai@mail.com 9711003344 2021-09-10
4 405 Fathiya Alfaidi fathiya.alfaidi@email.com 91234567 2025-12-17
5 408 wafa NULL NULL 2025-12-17

Query executed successfully.

```

DESKTOP-BLAC28R (15.0 RTM) | DESKTOP-BLAC28R\fathi ... | LibraryManagementSystem | 00:00:00 | 5 rows

```

library.sql - DESKTOP-BLAC28R.LibraryManagementSystem (DESKTOP-BLAC28R\fathi (82)) - Microsoft SQL Server Management Studio (Administrator)
File Edit View Query Project Tools Window Help
New Query Execute
LibraryManagementSystem
Object Explorer Results Messages
library.sql - DESKTOP-BLAC28R\fathi (82) + x
SELECT Title, Genre, Availability_Status FROM Book;
SELECT Title, Email, Membership_Start_Date FROM Member;
SELECT Title, Price AS BookPrice FROM Book;
SELECT * FROM Book
WHERE Price > 250;
SELECT * FROM Book
WHERE Membership_Start_Date < '2023-01-01';
SELECT * FROM Book
WHERE YEAR(Review_Date) > 2018;
SELECT * FROM Book
ORDER BY Price DESC;
SELECT MAX(Price) AS MaxPrice,
MIN(Price) AS MinPrice,
AVERAGE(Price) AS AvgPrice
FROM Book;
SELECT COUNT(*) AS TotalBooks FROM Book;
SELECT * FROM Member
WHERE Title = 'Mata';
SELECT * FROM Book
WHERE Title LIKE '%Mata%';

SET IDENTITY_INSERT Member ON;

INSERT INTO Member (MemberID, Full_Name, Email, Phone_Number, Membership_Start_Date)
VALUES
(485, 'Fathiya Alfaidi', 'fathiya.alfaidi@email.com', '91234567', GETDATE());
SET IDENTITY_INSERT Member OFF;

INSERT INTO Loan (Loan_Date, Due_Date, Status, MemberID, BookID)
VALUES (GETDATE(), DATEADD(DAY, 14, GETDATE()), 'Issued', 485, 1011);

INSERT INTO Member (Full_Name, Email, Phone_Number, Membership_Start_Date)
VALUES ('Wafa', NULL, NULL, GETDATE());

UPDATE Loan
SET Return_Date = GETDATE(),
Status = 'Returned'
WHERE MemberID = 485 AND BookID = 1011;

Results Messages
LoanID Loan_Date Due_Date Return_Date Status MemberID BookID
1 2023-12-01 2023-12-15 NULL Issued 1 1
2 2 2023-12-05 2023-12-19 NULL Issued 2 2
3 3 2023-12-10 2023-12-24 NULL Issued 3 3
4 4 2025-12-17 2025-12-31 2025-12-17 Returned 405 1011

Query executed successfully.

```

Ready 29°C Mostly cloudy Ln 141 Col 1 Ch 1 INS DESKTOP-BLAC28R (15.0 RTM) DESKTOP-BLAC28R\fathi ... LibraryManagementSystem 00:00:00 4 rows 12/17/2025 2:20 PM

```

library.sql - DESKTOP-BLAC28R.LibraryManagementSystem (DESKTOP-BLAC28R\fathi (82)) - Microsoft SQL Server Management Studio (Administrator)
File Edit View Query Project Tools Window Help
New Query Execute
LibraryManagementSystem
Object Explorer Results Messages
library.sql - DESKTOP-BLAC28R\fathi (82) + x
SELECT * FROM Book;
SELECT * FROM Member
WHERE Email IS NULL;
SELECT * FROM Book
WHERE Title LIKE '%Mata%';

SET IDENTITY_INSERT Member ON;

INSERT INTO Member (MemberID, Full_Name, Email, Phone_Number, Membership_Start_Date)
VALUES
(485, 'Fathiya Alfaidi', 'fathiya.alfaidi@email.com', '91234567', GETDATE());
SET IDENTITY_INSERT Member OFF;

INSERT INTO Loan (Loan_Date, Due_Date, Status, MemberID, BookID)
VALUES (GETDATE(), DATEADD(DAY, 14, GETDATE()), 'Issued', 485, 1011);

INSERT INTO Member (Full_Name, Email, Phone_Number, Membership_Start_Date)
VALUES ('Wafa', NULL, NULL, GETDATE());

UPDATE Loan
SET Return_Date = GETDATE(),
Status = 'Returned'
WHERE MemberID = 485 AND BookID = 1011;

UPDATE Book
SET Price = Price * 1.05
WHERE Price < 200;

```

Ready 29°C Mostly cloudy Ln 137 Col 1 Ch 1 INS DESKTOP-BLAC28R (15.0 RTM) DESKTOP-BLAC28R\fathi ... LibraryManagementSystem 00:00:00 3 rows 12/17/2025 2:22 PM

library.sql - DESKTOP-BLAC28R\LibraryManagementSystem (DESKTOP-BLAC28R\fathi [S2]) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

LibraryManagementSystem -> Execute ✓

Object Explorer

Connect -> DESKTOP-BLAC28R (SQL Server 15.0.2600.20) >

Databases

- System Databases
- Database Snapshots
- AirlineDB
- Books
- collegeDB2
- Company\_SD
- companyDatabase
- companyDB
- LibraryManagementSystem
- Logins
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Management Services Catalogs
- SQL Server Agent (Agent IP's disabled)
- XEvents Profiler

Script

library.sql - DESKTOP-BLAC28R\fathi [S2] \* >

```
USE [LibraryManagementSystem]
GO

-- Insert Member Data
INSERT INTO Member (MemberID, Full_Name, Email, Phone_Number, Membership_Start_Date)
VALUES (405, 'Fathiya Alfaidi', 'fathiya.alfahdi@email.com', '91234567', GETDATE());

-- Insert Book Data
INSERT INTO Book (BookID, Title, Isbn)
VALUES (1, 'The Great Gatsby', '9780451522484');

-- Insert Loan Data
INSERT INTO Loan (Loan_ID, Due_Date, Status, MemberID, BookID)
VALUES (GETDATE(), DATEADD(DAY, 14, GETDATE()), 'Issued', 405, 1011);

-- Insert Member Record
INSERT INTO Member (Full_Name, Email, Phone_Number, Membership_Start_Date)
VALUES ('wafa', NULL, NULL, GETDATE());

-- Update Loan Status
UPDATE Loan
SET Return_Date = GETDATE(),
    Status = 'Returned'
WHERE MemberID = 405 AND BookID = 1011;

-- Update Book Price
UPDATE Book
SET Price = Price * 1.05
WHERE Price < 200;

-- Alter Table Member Add Status Column
ALTER TABLE Member ADD Status NVARCHAR(20) DEFAULT 'Inactive';

-- Update Member Status
UPDATE Member
SET Status = 'Active'
WHERE Membership_Start_Date >= DATEADD(MONTH, -1, GETDATE());
```

Results

MemberID	Full_Name	Email	Phone_Number	Membership_Start_Date	Status
1	Sara Al Maskari	sara.maskari@email.com	971100122	2023-02-20	NULL
2	Omar Al Rawasi	omar.rawasi@email.com	971100223	2023-02-20	NULL
3	Lulu H Lameer	lulu.lameer@email.com	971100344	2023-09-10	NULL
405	Fathiya Alfaidi	fathiya.alfahdi@email.com	91234567	2023-12-17	Active
400	wafa	NULL	NULL	2023-12-17	Active

Messages

Query executed successfully.

DESKTOP-BLAC28R (15.0 RTM) | DESKTOP-BLAC28R\fathi ... | LibraryManagementSystem | 00:00:00 | 5 rows

Ln 140 Col 1 Ch 1 RS

Ready

SPC Mostly cloudy

Search

23:17 PM 12/17/2023

