

SQLQuery1.sql - ALMAZIDI.LibraryDB (ALMAZIDI\mozam (74)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Object Explorer

ALMAZIDI (SQL Server 15.0.2000.5 - ALMAZIDI\mozam)

Libraries

1. Library Database - JOIN Queries

```

--1. Display library ID, name, and the name of the manager...
SELECT
    l.LibraryID,
    l.Name AS LibraryName,
    s.FullName AS ManagerName
FROM Library l
JOIN Staff s
    ON l.LibraryID = s.LibraryID
WHERE s.Position = 'Archivist';

--select* from Staff
--select* from Library

```

Properties

Current connection parameters

Aggregate Status

Connection failures: 00:00:00,046
Elapsed time: 12/23/2023 11:55:26 AM
Finish time: ALMAZIDI
Name: ALMAZIDI\mozam (74)
Rows returned: 9
Start time: 12/23/2023 11:55:26 AM
State: Open

Connection

Connection name: ALMAZIDI (ALMAZIDI\mozam)

Connection Details

Connection elapsed time: 00:00:00,046
Connection encryption: Not encrypted
Connection finish time: 12/23/2023 11:55:26 AM
Connection rows returned: 9
Connection start time: 12/23/2023 11:55:26 AM
Connection state: Open
Display name: ALMAZIDI
Login name: ALMAZIDI\mozam
Server name: ALMAZIDI
Server version: 15.0.2000
Session Tracing ID: 74
SPID: 74

Result

Messages

LibraryID	LibraryName	ManagerName
1	Library3	Sad Al-Hathy

StaffID	FullName	Position	ContactNumber	LibraryID
1	Hamed Al-Sayed	Librarian	9976549	1
2	Sara abdullah	Assistant Librarian	9329675	2
3	Sad Al-Hathy	Archivist	9427927	3
4	Lala Abdill	Library Technician	9896432	4

LibraryID	Name	Location	ContactNumber	EstablishedYear
1	Library1	Moscat	98969	2000
2	Library2	Nearby	90699	1998
3	Library3	Seewa	98766	1992
4	Library4	Sohar	99088	1986

Query executed successfully.

ALMAZIDI (15.0 RTM) ALMAZIDI\mozam (74) LibraryDB 00:00:00 | 9 rows

Ready 74# Sunny

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SQLQuery2.sql - ALMAZIDI.LibraryDB (ALMAZIDI\mozam (74)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Object Explorer

ALMAZIDI (SQL Server 15.0.2000.5 - ALMAZIDI\mozam)

Libraries

1. Library Database - JOIN Queries

```

--1. Display library ID, name, and the name of the manager...
SELECT
    l.LibraryID,
    l.Name AS LibraryName,
    s.FullName AS ManagerName
FROM Library l
JOIN Staff s
    ON l.LibraryID = s.LibraryID
WHERE s.Position = 'Archivist';

--Display library names and the books available in each one--
SELECT
    l.Name AS LibraryName,
    b.Title AS BookTitle
FROM Library l
JOIN Book b
    ON l.LibraryID = b.LibraryID
WHERE b.isAvailable = 1;

--select* from Book
--select* from Library

```

Properties

Current connection parameters

Aggregate Status

Connection failures: 00:00:00,053
Elapsed time: 12/23/2023 11:59:21 AM
Finish time: ALMAZIDI
Name: ALMAZIDI\mozam (74)
Rows returned: 4
Start time: 12/23/2023 11:59:21 AM
State: Open

Connection

Connection name: ALMAZIDI (ALMAZIDI\mozam)

Connection Details

Connection elapsed time: 00:00:00,053
Connection encryption: Not encrypted
Connection finish time: 12/23/2023 11:59:21 AM
Connection rows returned: 4
Connection start time: 12/23/2023 11:59:21 AM
Connection state: Open
Display name: ALMAZIDI
Login name: ALMAZIDI\mozam
Server name: ALMAZIDI
Server version: 15.0.2000
Session Tracing ID: 74
SPID: 74

Result

Messages

LibraryName	BookTitle
Library1	DATABASE
Library2	baby
Library3	Algebra
Library4	Islamic

Query executed successfully.

ALMAZIDI (15.0 RTM) ALMAZIDI\mozam (74) LibraryDB 00:00:00 | 4 rows

Ready 74# Sunny

3

SQLQuery2.sql - ALMAZDI.LibraryDB (ALMAZDI\mozam (74)) - Microsoft SQL Server Management Studio

```
--Display library names and the books available in each one---
SELECT
    l.Name AS LibraryName,
    b.BookTitle
FROM Library l
JOIN Book b
    ON l.LibraryID = b.LibraryID

--Display all member data along with their loan history---
SELECT
    m.MemberID,
    m.FullName,
    m.Email,
    m.PhoneNumber,
    m.MembershipStartDate,
    l.LoanID,
    l.LoanDate,
    l.DueDate,
    l.ReturnDate,
    l.Status
FROM Members m
LEFT JOIN Loan l
    ON m.MemberID = l.MemberID;

select* from Members
select* from Loan
```

	MemberID	FullName	Email	PhoneNumber	MembershipStartDate	LoanID	LoanDate	DueDate	ReturnDate	Status
1	1	Ali Mohann	ali.Mohann@gmail.com	968933	2025-01-01	1	2025-08-01	2025-12-24	NULL	Issued
2	2	Ayman Mohann	Ayman.Mohann@gmail.com	97033377	2025-02-02	2	2025-09-03	2025-12-24	NULL	Issued
3	3	medhat Ali	medhat.HB@gmail.com	3075544	2025-03-06	3	2025-10-11	2025-10-13	NULL	Issued
4	4	Mohamed Mohann	Mohamed.Mohann@gmail.com	99995555	2025-04-07	4	2025-11-11	2025-11-16	NULL	Issued
5	405	Mozza Mohammed	Mozza@gmail.com	99657788	2025-01-12	6	2025-08-11	2025-12-24	2025-12-18	Issued

Query executed successfully.

ALMAZDI (15.0 RTM) | ALMAZDI\mozam (74) | LibraryDB | 00:00:00 | 5 rows

Name
The name of the connection.

4

SQLQuery2.sql - ALMAZDI.LibraryDB (ALMAZDI\mozam (74)) - Microsoft SQL Server Management Studio

```
--Display all member data along with their loan history---
SELECT
    m.MemberID,
    m.FullName,
    m.Email,
    m.PhoneNumber,
    m.MembershipStartDate,
    l.LoanID,
    l.LoanDate,
    l.DueDate,
    l.ReturnDate,
    l.Status
FROM Members m
LEFT JOIN Loan l
    ON m.MemberID = l.MemberID;

--Display all books located in 'Zamalek' or 'Downtown'---
SELECT b.BookID,
    b.Title,
    b.ISBN,
    b.Genre,
    b.Price,
    b.ShelfLocation,
    b.Available,
    l.LibraryID
FROM Book b
INNER JOIN Library l
    ON b.LibraryID = l.LibraryID
WHERE l.Location IN ('Muscat', 'Nile');

select* from Book
select* from Library
```

	BookID	ISBN	Title	Genre	Price	ShelfLocation	Available	LibraryID
1	3	978599	DATABASE	Foton	26.36	A1-1	1	1
2	4	978011	baby	Children	12.75	A2-2	1	2

Query executed successfully.

ALMAZDI (15.0 RTM) | ALMAZDI\mozam (74) | LibraryDB | 00:00:00 | 2 rows

Name
The name of the connection.

5

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. It has two query panes open:

- Query1.sql (Tab 1):**

```

SELECT *
FROM Book b
JOIN Library l
ON b.LibraryID = l.LibraryID
WHERE l.Location IN ('Muscat', 'Nizwa');
    
```
- Query2.sql (Tab 2):**

```

SELECT *
FROM Book
WHERE Title LIKE 'AN';
    
```

The results pane shows the output of the first query:

BookID	ISBN	Title	Genre	Price	ShelfLocation	IsAvailable	LibraryID
1	587641	Algebra	Non-fiction	14.81	B1-1	1	3

The properties pane on the right displays connection details:

- Aggregate Status**: Connection failures: 00:00:00.031, Elapsed time: 00:00:00.031, Finish time: 12/23/2023 12:12:24 PM, Name: ALMAZDI, Rows returned: 1, Start time: 12/23/2023 12:12:24 PM, State: Open.
- Connection Details**: Connection name: ALMAZDI (ALMAZDI\mosam), Connection elapsed time: 00:00:00.031, Connection encryption: Not encrypted, Connection finish time: 12/23/2023 12:12:24 PM, Connection rows returned: 1, Connection start time: 12/23/2023 12:12:24 PM, Connection state: Open, Display name: ALMAZDI, Login name: ALMAZDI\mosam, Server name: ALMAZDI, Server version: 15.0.2000, Session Tracing ID: 74, SPID: 74.

The status bar at the bottom indicates "Query executed successfully." and shows the system tray with icons for battery level (74%), signal strength, and network.

6

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. It has two query panes open:

- Query1.sql (Tab 1):**

```

SELECT *
FROM Book
WHERE Title LIKE 'AN';
    
```
- Query2.sql (Tab 2):**

```

...Display all books whose titles start with 'A'...
    
```

The results pane shows the output of the second query:

Fullname
Ahmed Mohann...

The properties pane on the right displays connection details:

- Aggregate Status**: Connection failures: 00:00:00.031, Elapsed time: 00:00:00.031, Finish time: 12/23/2023 12:16:19 PM, Name: ALMAZDI, Rows returned: 1, Start time: 12/23/2023 12:16:19 PM, State: Open.
- Connection Details**: Connection name: ALMAZDI (ALMAZDI\mosam), Connection elapsed time: 00:00:00.031, Connection encryption: Not encrypted, Connection finish time: 12/23/2023 12:16:19 PM, Connection rows returned: 1, Connection start time: 12/23/2023 12:16:19 PM, Connection state: Open, Display name: ALMAZDI, Login name: ALMAZDI\mosam, Server name: ALMAZDI, Server version: 15.0.2000, Session Tracing ID: 74, SPID: 74.

The status bar at the bottom indicates "Query executed successfully." and shows the system tray with icons for battery level (74%), signal strength, and network.

7

The screenshot shows the Microsoft SQL Server Management Studio interface with two queries running in separate windows.

Query 1 (SQLQuery1.sql):

```
--...list members who borrowed books priced between 11 and 13 LE.--
SELECT m.FullName
FROM Members m
JOIN Loan lo
ON m.MemberID = lo.MemberID
JOIN Book b
ON lo.BookID = b.BookID
WHERE b.Price BETWEEN 11 AND 13;

--Retrieve members who borrowed and returned books titled 'The Alchemist'--
SELECT m.FullName
FROM Members m
JOIN Loan lo
ON m.MemberID = lo.MemberID
JOIN Book b
ON lo.BookID = b.BookID
WHERE b.Title = 'DATABASE';

select* from Members
select* from Loan
SELECT* FROM Book
```

Query 2 (SQLQuery2.sql):

```
--...list members who borrowed books priced between 11 and 13 LE.--
SELECT m.FullName
FROM Members m
JOIN Loan lo
ON m.MemberID = lo.MemberID
JOIN Book b
ON lo.BookID = b.BookID
WHERE b.Price BETWEEN 11 AND 13;

--Retrieve members who borrowed and returned books titled 'The Alchemist'--
SELECT m.FullName
FROM Members m
JOIN Loan lo
ON m.MemberID = lo.MemberID
JOIN Book b
ON lo.BookID = b.BookID
WHERE b.Title = 'DATABASE';

select* from Members
select* from Loan
SELECT* FROM Book
```

Properties Window:

Current connection parameters	
Connection name	ALMAZDI (ALMAZDI\mosam)
Connection Details	Connection elapsed time: 00:00:00.025 Connection encryption: Not encrypted Connection finish time: 12/23/2023 12:18:58 PM Connection rows returned: 2 Connection start time: 12/23/2023 12:18:58 PM Connection state: Open Display name: ALMAZDI Login name: ALMAZDI\mosam Server name: ALMAZDI Server version: 15.0.2000 Session Tracing ID: 74 SPID: 74

Results Window:

Query executed successfully.

Fullname
Ali Mohann
Mosa Mohamed

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The screenshot shows the Microsoft SQL Server Management Studio interface with two queries running in separate windows.

Query 1 (SQLQuery1.sql):

```
--...list members assisted by librarian "Sarah Fathy"...
SELECT m.FullName
FROM Members m
JOIN Loan lo
ON m.MemberID = lo.MemberID
JOIN Book b
ON lo.BookID = b.BookID
WHERE b.Title = 'DATABASE';

--Find all members assisted by librarian "Sarah Fathy"...
SELECT m.FullName
FROM Members m
JOIN Loan lo
ON m.MemberID = lo.MemberID
JOIN Book b
ON lo.BookID = b.BookID
JOIN Staff s
ON b.MemberID = s.LibraryID
WHERE s.FullName = 'Sara albloshi';

select* from Members
select* from Loan
SELECT* FROM Book
select* from Staff
```

Query 2 (SQLQuery2.sql):

```
--...list members assisted by librarian "Sarah Fathy"...
SELECT m.FullName
FROM Members m
JOIN Loan lo
ON m.MemberID = lo.MemberID
JOIN Book b
ON lo.BookID = b.BookID
WHERE b.Title = 'DATABASE';

--Find all members assisted by librarian "Sarah Fathy"...
SELECT m.FullName
FROM Members m
JOIN Loan lo
ON m.MemberID = lo.MemberID
JOIN Book b
ON lo.BookID = b.BookID
JOIN Staff s
ON b.MemberID = s.LibraryID
WHERE s.FullName = 'Sara albloshi';

select* from Members
select* from Loan
SELECT* FROM Book
select* from Staff
```

Properties Window:

Current connection parameters	
Connection name	ALMAZDI (ALMAZDI\mosam)
Connection Details	Connection elapsed time: 00:00:00.015 Connection encryption: Not encrypted Connection finish time: 12/23/2023 12:23:26 PM Connection rows returned: 1 Connection start time: 12/23/2023 12:23:26 PM Connection state: Open Display name: ALMAZDI Login name: ALMAZDI\mosam Server name: ALMAZDI Server version: 15.0.2000 Session Tracing ID: 74 SPID: 74

Results Window:

Query executed successfully.

Fullname
Ahmed Mohann

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SQLQuery2.sql - ALMAZIDI.LibraryDB (ALMAZIDI\mozzam (74)) - Microsoft SQL Server Management Studio

```

--Display each member's name and the books they borrowed, ordered by book title--
SELECT
    m.FullName,
    b.Title
FROM Members m
JOIN Loan l
ON m.MemberID = l.MemberID
JOIN Book b
ON l.BookID = b.BookID
ORDER BY b.Title;

```

Results Messages

FullName	Title
mohann Ali	Algebra
Ahmed Mohamed	Book
Ali Mohamed	DATABASE
Musa Mohamed	DATABASE
Mobarak Mohamed	Islamic

Properties

Aggregate Status

- Connection failures: 0
- Elapsed time: 00:00:00.059
- Finish time: 12/23/2023 12:26:29 PM
- Name: ALMAZIDI
- Rows returned: 5
- Start time: 12/23/2023 12:26:29 PM
- State: Open

Connection

- Connection name: ALMAZIDI (ALMAZIDI\mozzam)

Connection Details

- Connection elapsed time: 00:00:00.059
- Connection encryption: Not encrypted
- Connection finish time: 12/23/2023 12:26:29 PM
- Connection rows returned: 5
- Connection start time: 12/23/2023 12:26:29 PM
- Connection state: Open
- Display name: ALMAZIDI
- Login name: ALMAZIDI\mozzam
- Server name: ALMAZIDI
- Server version: 15.0.2000
- Session Tracing ID: 74
- SPID: 74

Name: The name of the connection.

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SQLQuery2.sql - ALMAZIDI.LibraryDB (ALMAZIDI\mozzam (74)) - Microsoft SQL Server Management Studio

```

--From Members --
JOIN Loan l
ON m.MemberID = l.MemberID
JOIN Book b
ON l.BookID = b.BookID
ORDER BY b.Title;

--For each book located in 'Cairo Branch', show title, library name, manager, and shelf info--
SELECT
    b.Title,
    s.Name,
    s.FullName,
    b.ShelfLocation
FROM Book b
JOIN Library l
ON b.LibraryID = l.LibraryID
JOIN Staff s
ON l.LibraryID = s.LibraryID
WHERE l.Name = 'Library1';


```

Results Messages

Title	Name	FullName	ShelfLocation
DATABASE	Hanad Al-Sayed	Hanad Al-Sayed	A1-1

Properties

Aggregate Status

- Connection failures: 0
- Elapsed time: 00:00:00.034
- Finish time: 12/23/2023 12:32:00 PM
- Name: ALMAZIDI
- Rows returned: 1
- Start time: 12/23/2023 12:32:00 PM
- State: Open

Connection

- Connection name: ALMAZIDI (ALMAZIDI\mozzam)

Connection Details

- Connection elapsed time: 00:00:00.034
- Connection encryption: Not encrypted
- Connection finish time: 12/23/2023 12:32:00 PM
- Connection rows returned: 1
- Connection start time: 12/23/2023 12:32:00 PM
- Connection state: Open
- Display name: ALMAZIDI
- Login name: ALMAZIDI\mozzam
- Server name: ALMAZIDI
- Server version: 15.0.2000
- Session Tracing ID: 74
- SPID: 74

Name: The name of the connection.

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SQLQuery2.sql - ALMAZDI.LibraryDB (ALMAZDI\mazam (74)) - Microsoft SQL Server Management Studio

```
--For each book located in 'Cairo Branch', show title, library name, manager, and shelf info--  
SELECT  
    b.Title,  
    s.FullName,  
    b.ShelfLocation  
FROM Book b  
JOIN Staff s  
    ON b.LibraryID = s.LibraryID  
JOIN Staff s  
    ON s.LibraryID = b.LibraryID  
WHERE s.Name = 'Library1';  
  
--Display all staff members who manage libraries....  
SELECT *  
FROM Staff  
WHERE Position = 'Librarian';  
  
select* from Members  
select* from Library  
SELECT* FROM Book  
Select* From Staff
```

	StaffID	FullName	Position	ContactNumber	LibraryID
1	1	Hanad Al-Sayed	Librarian	9976549	1

Properties

Aggregate Status

Connection parameters

Connection name: ALMAZDI\ALMAZDI\mazam

Connection Details

Connection name: ALMAZDI\ALMAZDI\mazam

Connection elapsed time: 00:00:00.034

Connection encryption: Not encrypted

Connection finish time: 12/23/2023 12:33:54 PM

Connection rows returned: 1

Connection start time: 12/23/2023 12:33:54 PM

Connection state: Open

Display name: ALMAZDI

Login name: ALMAZDI\mazam

Server name: ALMAZDI

Server version: 15.0.2000

Session Tracing ID: 74

SPID: 74

Name: The name of the connection.

Query executed successfully.

ALMAZDI (15.0 RTM) | ALMAZDI\mazam (74) | LibraryDB | 00:00:00 | 1 rows

Ready 74% Sunny 12:33 PM 12/23/2023

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SQLQuery2.sql - ALMAZDI.LibraryDB (ALMAZDI\mazam (74)) - Microsoft SQL Server Management Studio

```
2023 Staff s  
    ON s.LibraryID = s.LibraryID  
  
--Display all staff members who manage libraries....  
SELECT *  
FROM Staff  
WHERE Position = 'Librarian';  
  
--Display all members and their reviews, even if some didn't submit any review yet.--  
SELECT  
    m.FullName,  
    m.Comments,  
    r.Rating,  
    r.ReviewDate  
FROM Member m  
LEFT JOIN Review r  
    ON m.MemberID = r.MemberID  
select* from Members  
select* from Review  
SELECT* FROM Book  
Select* From Staff
```

	MemberID	Comments	Rating	ReviewDate
1	All Mohamed	No comments	2	2025-11-17
2	Ahmed Mohamed	No comments	3	2025-11-18
3	mohann Al	No comments	4	2025-11-19
4	Mohab Mohamed	No comments	5	2025-11-20
5	Mosa Mohamed	NULL	NULL	NULL

Properties

Aggregate Status

Connection parameters

Connection name: ALMAZDI\ALMAZDI\mazam

Connection Details

Connection name: ALMAZDI\ALMAZDI\mazam

Connection elapsed time: 00:00:00.031

Connection encryption: Not encrypted

Connection finish time: 12/23/2023 12:36:20 PM

Connection rows returned: 5

Connection start time: 12/23/2023 12:36:20 PM

Connection state: Open

Display name: ALMAZDI

Login name: ALMAZDI\mazam

Server name: ALMAZDI

Server version: 15.0.2000

Session Tracing ID: 74

SPID: 74

Name: The name of the connection.

Query executed successfully.

ALMAZDI (15.0 RTM) | ALMAZDI\mazam (74) | LibraryDB | 00:00:00 | 5 rows

Ready 74% Sunny 12:36 PM 12/23/2023