

company DB.sql - DESKTOP-BLAC2B8(companyDB (DESKTOP-BLAC2B8\fatih) (88)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: Connect to companyDB (DESKTOP-BLAC2B8\fatih) (88) - Microsoft SQL Server 15.0.2081.1

Query: companyDB.sql - D:\LAC2B8\fatih (88) - SQL Query Log: DE..BLAC2B8\fatih (54)

```

SELECT
    D.Dnum, D.Dname, D.EmpSSN AS ManagerID, E.FirstName + ' ' + E.LastName AS ManagerFullName
FROM Department D, Employee E
WHERE D.EmpSSN = E.SSN;

```

Results: 15 rows

Dnum	Dname	ManagerID	ManagerFullName
1	HR	1	Jil Hassan
2	Finance	3	Omair Saad
3	IT	5	Yusuf Salim
4	Marketing	2	Sara Khalid
5	Operations	4	Fatima Nasser
6	HR	1	Jil Hassan
7	Finance	3	Omair Saad
8	IT	5	Yusuf Salim
9	Marketing	2	Sara Khalid
10	Operations	4	Fatima Nasser
11	HR	1	Jil Hassan
12	Finance	3	Omair Saad
13	IT	5	Yusuf Salim
14	Marketing	2	Sara Khalid
15	Operations	4	Fatima Nasser

Query executed successfully.

DESKTOP-BLAC2B8 (15.0 RTM) DESKTOP-BLAC2B8\fatih ... companyDB 00:00:00 15 rows

company DB.sql - DESKTOP-BLAC2B8(companyDB (DESKTOP-BLAC2B8\fatih) (88)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: Connect to companyDB (DESKTOP-BLAC2B8\fatih) (88) - Microsoft SQL Server 15.0.2081.1

Query: companyDB.sql - D:\LAC2B8\fatih (88) - SQL Query Log: DE..BLAC2B8\fatih (54)

```

select*from Employee;
select*from Department;
select*from Dlocation;
select*from Project;
select*from EMPDependent;
select*from WorkingHours;
-----Join-----
SELECT
    D.Dnum, D.Dname, D.EmpSSN AS ManagerID, E.FirstName + ' ' + E.LastName AS ManagerFullName
FROM Department D, Employee E
WHERE D.EmpSSN = E.SSN;
-----Join-----
SELECT D.Dname, P.Pname
FROM Department D, Project P
WHERE D.Dnum = P.Dnum;

```

Results: 5 rows

Dname	Pname
Finance	Payroll System
IT	Website Upgrade
HR	Recruitment Drive
Marketing	Ad Campaign
Operations	Logistics Optimization

Query executed successfully.

DESKTOP-BLAC2B8 (15.0 RTM) DESKTOP-BLAC2B8\fatih ... companyDB 00:00:00 10 rows

company DB.sql - DESKTOP-BLAC2BR\companyDB (DESKTOP-BLAC2BR\fatih) (88) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

companyDB

Object Explorer

Connect to companyDB

DESKTOP-BLAC2BR (SQL Server 15.0.20)

Databases

- System Databases
- Database Snapshots
- AdventureWorks
- BankingSystem
- collageDB2
- Company_DB
- companyDatabase
- companyDB
- Database Diagrams
- Tables
- Views
- External Resources
- Synonyms
- Programmability
- Storage
- Security
- LibraryManagementSystem
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XE Event Profiler

Query

```

select*from Employee;
select*from Department;
select*from Dlocation;
select*from Project;
select*from EMPDependent;
select*from WorkingHours;

-----join-----
SELECT
D.Dnum, D.Dname, D.EmpSSN AS ManagerID, E.FirstName + ' ' + E.LastName AS ManagerFullName
FROM Department D, Employee E
where D.EmpSSN = E.SSN;

SELECT D.Dname, P.Pname
FROM Department D, Project P
where D.Dnum = P.Dnum;

SELECT ED., E.FirstName + ' ' + E.LastName AS EmployeeFullName
FROM EMPDependent ED, Employee E
where ED.EmpSSN = E.SSN;

```

Results

EmpID	EmpSSN	Dnum	Gender	DBirthdate	EmployeeFullName
1	1	1	0	2012-04-15	Ali Hassan
2	2	1	1	2015-09-20	Sara Khalid
3	3	2	0	2010-12-05	Omar Saeed
4	4	2	1	2018-07-30	Fatma Nasser
5	5	3	0	2016-02-11	Yusef Salem

Query executed successfully.

DESKTOP-BLAC2BR (15.0 RTM) DESKTOP-BLAC2BR\fatih ... companyDB 00:00:00 10 rows

Ready

24°C Sunny

Ln 140 Col 1 Ch 1 RWS

11:37 AM 12/21/2025

company DB.sql - DESKTOP-BLAC2BR\companyDB (DESKTOP-BLAC2BR\fatih) (88) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

companyDB

Object Explorer

Connect to companyDB

DESKTOP-BLAC2BR (SQL Server 15.0.20)

Databases

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Query

```

select*from Employee;
select*from Department;
select*from Dlocation;
select*from Project;
select*from EMPDependent;
select*from WorkingHours;

-----join-----
SELECT
D.Dnum, D.Dname, D.EmpSSN AS ManagerID, E.FirstName + ' ' + E.LastName AS ManagerFullName
FROM Department D, Employee E
where D.EmpSSN = E.SSN;

SELECT D.Dname, P.Pname
FROM Department D, Project P
where D.Dnum = P.Dnum;

SELECT ED., E.FirstName + ' ' + E.LastName AS EmployeeFullName
FROM EMPDependent ED, Employee E
where ED.EmpSSN = E.SSN;

SELECT Pnum, Pname, City
FROM Project
WHERE City IN ('Muscat', 'Sur');

```

Results

Pnum	Pname	City
1	Payroll System	Muscat
2	Website Upgrade	Muscat
3	Logistics Optimization	Sur

Query executed successfully.

DESKTOP-BLAC2BR (15.0 RTM) DESKTOP-BLAC2BR\fatih ... companyDB 00:00:00 6 rows

Ready

24°C Sunny

Ln 144 Col 1 Ch 1 RWS

12:01 PM 12/21/2025

company DB.sql - DESKTOP-BLAC2BR\companyDB (DESKTOP-BLAC2BR\fatih) (88) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

companyDB

Object Explorer

Connect: companyDB

DESKTOP-BLAC2BR (SQL Server 15.0.20)

Databases

- System Databases
- Database Snapshots
- AdventureWorks
- AdventureWorksLT
- BankingSystem
- collage
- collageDW
- CompanyDW
- companyDatabase
- companyDB
- Database Diagrams
- Tables
- Views
- External Resources
- Synonyms
- Programmability
- Storage
- Security
- Library/ManagementSystem
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XE Event Profiler

Query Editor

```

select*from Department;

select*from Location;

select*from Project;

select*from EMPDependent;

select*from WorkingHours;

-----join-----
SELECT
D.Dnum, D.Dname, D.EmpSSN AS ManagerID, E.FirstName + ' ' + E.LastName AS ManagerFullName
FROM Department D, Employee E
where D.EmpSSN = E.SSN;

SELECT D.Dname, P.Pname
FROM Department D, Project P
where D.Dnum = P.Dnum;

SELECT ED., E.FirstName + ' ' + E.LastName AS EmployeeFullName
FROM EMPDependent ED, Employee E
where ED.EmpSSN = E.SSN;

SELECT Pnum, Pname, City
FROM Project
WHERE City IN ('Muscat', 'Sua');

SELECT *
FROM Project
WHERE Pname LIKE 'AS';

```

Results

Pnum	Pname	Location	City	Dnum
1	Ad Campaign	Branch	Salah	4

Query executed successfully.

DESKTOP-BLAC2BR (15.0 RTM) DESKTOP-BLAC2BR\fatih... companyDB 00:00:00 2 rows

Ready

24°C Sunny

Ln 148 Col 1 Ch 1 IN5

12:03 PM 12/21/2025

company DB.sql - DESKTOP-BLAC2BR\companyDB (DESKTOP-BLAC2BR\fatih) (88) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

companyDB

Object Explorer

Connect: companyDB

DESKTOP-BLAC2BR (SQL Server 15.0.20)

Databases

- System Databases
- Database Snapshots
- AdventureWorks
- AdventureWorksLT
- BankingSystem
- collage
- collageDW
- CompanyDW
- companyDatabase
- companyDB
- Database Diagrams
- Tables
- Views
- External Resources
- Synonyms
- Programmability
- Storage
- Security
- Library/ManagementSystem
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XE Event Profiler

Query Editor

```

-----join-----
SELECT
D.Dnum, D.Dname, D.EmpSSN AS ManagerID, E.FirstName + ' ' + E.LastName AS ManagerFullName
FROM Department D, Employee E
where D.EmpSSN = E.SSN;

SELECT D.Dname, P.Pname
FROM Department D, Project P
where D.Dnum = P.Dnum;

SELECT ED., E.FirstName + ' ' + E.LastName AS EmployeeFullName
FROM EMPDependent ED, Employee E
where ED.EmpSSN = E.SSN;

SELECT Pnum, Pname, City
FROM Project
WHERE City IN ('Muscat', 'Sua');

SELECT *
FROM Project
WHERE Pname LIKE 'AS';

SELECT E.SSN, E.FirstName, E.LastName, Salary
FROM Employee E
WHERE E.Dnum = 1
AND Salary BETWEEN 1000 AND 2000;

```

Results

SSN	FirstName	LastName	Salary
1	Ali	Hassan	1500.00
2	Sara	Khald	1800.00

Query executed successfully.

DESKTOP-BLAC2BR (15.0 RTM) DESKTOP-BLAC2BR\fatih... companyDB 00:00:00 2 rows

Ready

24°C Sunny

Ln 187 Col 1 Ch 1 IN5

12:34 PM 12/21/2025

company DB.sql - DESKTOP-BLAC2BR\companyDB (DESKTOP-BLAC2BR\fatih) (80) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: Connect to companyDB. Databases: System Databases, Database Snapshots, AofineDB, BankingSystem, collage, collageDB2, Company_SD, companyDatabase, companyDB, Database Diagrams, Tables, Views, External Resources, Synonyms, Programmability, Service Broker, Storage, Security, Library/ManagementSystem, Security, Server Objects, Replication, PolyBase, Always On High Availability, Management, Integration Services Catalogs, SQL Server Agent (Agent XPs disabled), XEvent Profiler.

Query Editor: company DB.sql - D:\LAC2BR\fatih (80) -

```

D.Dnum, D.Dname, D.EmpSSN AS ManagerID, E.FirstName + ' ' + E.LastName AS ManagerFullName
FROM Department D, Employee E
where D.EmpSSN = E.SSN;

--SELECT D.Dname, P.Pname
--FROM Department D, Project P
--where D.Dnum = P.Dnum;

--SELECT ED., E.FirstName + ' ' + E.LastName AS EmployeeFullName
--FROM EMPDependent ED, Employee E
--where ED.EmpSSN = E.SSN;

--SELECT Pnum, Pname, City
--FROM Project
--WHERE City IN ('Muscat', 'Sana');

--SELECT *
--FROM Project
--WHERE Pname LIKE 'AX';

--SELECT E.SSN, E.FirstName, E.LastName, Salary
--FROM Employee E
--WHERE E.Dnum = 1
--AND Salary BETWEEN 1000 AND 2000;

--SELECT
--    E.FirstName,
--    E.LastName
--FROM Employee E
--2011 WorkingHours W
--ON E.SSN = W.EmpSSN
--2011 Project P
--ON W.Pnum = P.Pnum
--WHERE E.Dnum = 1
--AND W.NumHours >= 10
--AND P.Pname = 'Payroll System';

```

Results: 1 row(s) affected. Messages: 1. Results: 1 row(s) affected. Messages: 1.

Query executed successfully. DESKTOP-BLAC2BR (15.0 RTM) DESKTOP-BLAC2BR\fatih... companyDB 00:00:00 1 row(s)

company DB.sql - DESKTOP-BLAC2BR\companyDB (DESKTOP-BLAC2BR\fatih) (80) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: Connect to companyDB. Databases: System Databases, Database Snapshots, AofineDB, BankingSystem, collage, collageDB2, Company_SD, companyDatabase, companyDB, Database Diagrams, Tables, Views, External Resources, Synonyms, Programmability, Service Broker, Storage, Security, Library/ManagementSystem, Security, Server Objects, Replication, PolyBase, Always On High Availability, Management, Integration Services Catalogs, SQL Server Agent (Agent XPs disabled), XEvent Profiler.

Query Editor: company DB.sql - D:\LAC2BR\fatih (80) -

```

--SELECT Pnum, Pname, City
--FROM Project
--WHERE City IN ('Muscat', 'Sana');

--SELECT *
--FROM Project
--WHERE Pname LIKE 'AX';

--SELECT E.SSN, E.FirstName, E.LastName, Salary
--FROM Employee E
--WHERE E.Dnum = 1
--AND Salary BETWEEN 1000 AND 2000;

--SELECT
--    E.FirstName,
--    E.LastName
--FROM Employee E
--2011 WorkingHours W
--ON E.SSN = W.EmpSSN
--2011 Project P
--ON W.Pnum = P.Pnum
--WHERE E.Dnum = 1
--AND W.NumHours >= 10
--AND P.Pname = 'Payroll System';

--SELECT E.FirstName, E.LastName
--FROM Employee E
--2011 Employee S
--ON E.SuperID = S.SSN
--WHERE S.FirstName = 'Osman'
--AND S.LastName = 'Saeed';

```

Results: 2 row(s) affected. Messages: 1. Results: 2 row(s) affected. Messages: 1.

Query executed successfully. DESKTOP-BLAC2BR (15.0 RTM) DESKTOP-BLAC2BR\fatih... companyDB 00:00:00 2 row(s)

company DB.sql - DESKTOP-BLAC2BR\companyDB (DESKTOP-BLAC2BR\fatih (88)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: companyDB

```

SELECT P.Prnum, P.Phname, City
FROM Project
WHERE City IN ('Nuscaet', 'Sun');

SELECT *
FROM Project
WHERE Phname LIKE 'AS';

SELECT E.SSN, E.FirstName, E.LastName, Salary
FROM Employee E
WHERE E.Dnum = 1
AND Salary BETWEEN 1000 AND 2000;

SELECT
E.FirstName,
E.LastName
FROM Employee E
JOIN WorkingHours W
ON E.SSN = W.ExpSSN
JOIN Project P
ON W.Prnum = P.Prnum
WHERE E.Dnum = 1
AND W.NumHours >= 10
AND P.Phname = 'Payroll System';

SELECT E.FirstName, E.LastName
FROM Employee E
JOIN Employee S
ON E.SuperID = S.SSN
WHERE S.FirstName = 'Omar'
AND S.LastName = 'Saeed';

SELECT
E.FirstName + ' ' + E.LastName AS EmployeeName, P.Phname
FROM Employee E
JOIN WorkingHours W
ON E.SSN = W.ExpSSN
JOIN Project P
ON W.Prnum = P.Prnum
ORDER BY P.Phname;

```

Results

	EmployeeName	Phname
1	Fatma Nasser	AI Campaign
2	Yusuf Saleh	Logistics Optimization
3	Ali Hassan	Payroll System
4	Sara Hudaib	Recruitment Drive
5	Omar Saeed	Website Upgrade

Query executed successfully.

DESKTOP-BLAC2BR (15.0 RTM) DESKTOP-BLAC2BR\fatih... companyDB 00:00:00 5 rows

company DB.sql - DESKTOP-BLAC2BR\companyDB (DESKTOP-BLAC2BR\fatih (88)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: companyDB

```

SELECT E.SSN, E.FirstName, E.LastName, Salary
FROM Employee E
WHERE E.Dnum = 1
AND Salary BETWEEN 1000 AND 2000;

SELECT
E.FirstName,
E.LastName
FROM Employee E
JOIN WorkingHours W
ON E.SSN = W.ExpSSN
JOIN Project P
ON W.Prnum = P.Prnum
WHERE E.Dnum = 1
AND W.NumHours >= 10
AND P.Phname = 'Payroll System';

SELECT E.FirstName, E.LastName
FROM Employee E
JOIN Employee S
ON E.SuperID = S.SSN
WHERE S.FirstName = 'Omar'
AND S.LastName = 'Saeed';

SELECT
E.FirstName + ' ' + E.LastName AS EmployeeName, P.Phname
FROM Employee E
JOIN WorkingHours W
ON E.SSN = W.ExpSSN
JOIN Project P
ON W.Prnum = P.Prnum
ORDER BY P.Phname;

SELECT P.Prnum, D.Dname, E.LastName AS ManagerLastName, E.Birthdate
FROM Project P
JOIN Department D
ON P.Dnum = D.Dnum
JOIN Employee E
ON D.Dnum = E.SSN
WHERE P.City = 'Nuscaet';

```

Results

	Prnum	Dname	ManagerLastName	Birthdate
1	1	Finance	Saeed	1982-11-06
2	2	IT	Saleh	1980-09-30

Query executed successfully.

DESKTOP-BLAC2BR (15.0 RTM) DESKTOP-BLAC2BR\fatih... companyDB 00:00:00 4 rows

company DB.sql - DESKTOP-BLAC2BR\companyDB (DESKTOP-BLAC2BR\fatih) (887) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: DESKTOP-BLAC2BR (SQL Server 15.0.2075.1) > Databases > companyDB > Tables

```

-- Create table WorkingHours
CREATE TABLE WorkingHours (
    M_ID INT,
    P_ID INT,
    D_ID INT,
    E_ID INT,
    S_ID INT,
    P_Phase VARCHAR(50),
    M_NumHours INT,
    E_LastName VARCHAR(50),
    S_LastName VARCHAR(50)
)

-- Insert data into WorkingHours
INSERT INTO WorkingHours (M_ID, P_ID, D_ID, E_ID, S_ID, P_Phase, M_NumHours, E_LastName, S_LastName)
VALUES (1, 1, 1, 1, 1, 'Payroll System', 10, 'Hassan', 'Saad')

-- Select data from WorkingHours
SELECT E.Firstname, E.LastName
FROM Employee E
JOIN WorkingHours M
ON E.SSN = M.EmpSSN
JOIN Project P
ON M.Pnum = P.Pnum
ORDER BY P.Phase;

-- Select data from Project
SELECT P.Pnum, D.Dname, E.LastName AS ManagerLastName, E.Birthdate
FROM Project P
JOIN Department D
ON P.Dnum = D.Dnum
JOIN Employee E
ON P.EID = E.EID
WHERE P.City = 'Russet';

-- Select distinct data
SELECT DISTINCT E.*
FROM Employee E, Department D
WHERE E.SSN = D.EmpSSN;

```

Results: 5 rows

SSN	Firstname	Lastname	Birthdate	Gender	SuperID	Drum	Salary
1	Ali	Hassan	1985-03-12	M	3	1	1500.00
2	Sara	Khalid	1990-07-25	F	3	1	1800.00
3	Onar	Saad	1982-11-05	M	NULL	NULL	2200.00
4	Fatma	Hassan	1995-01-18	F	NULL	NULL	1300.00
5	Yusuf	Salm	1988-09-30	M	NULL	NULL	2000.00

Query executed successfully.

company DB.sql - DESKTOP-BLAC2BR\companyDB (DESKTOP-BLAC2BR\fatih) (887) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: DESKTOP-BLAC2BR (SQL Server 15.0.2075.1) > Databases > companyDB > Tables

```

-- Select data from Project
SELECT P.Pnum, D.Dname, E.LastName AS ManagerLastName, E.Birthdate
FROM Project P
JOIN Department D
ON P.Dnum = D.Dnum
JOIN Employee E
ON P.EID = E.EID
WHERE P.City = 'Russet';

-- Select distinct data
SELECT DISTINCT E.*
FROM Employee E, Department D
WHERE E.SSN = D.EmpSSN;

-- Select data from Project
SELECT E.Firstname, E.LastName AS EmployeeName, E.Dname, E.Gender, E.DBirthdate
FROM Employee E
LEFT JOIN EMPDependent ED
ON E.SSN = ED.EmpSSN;

```

Results: 5 rows

EmployeeName	EDname	Gender	DBirthdate
Ali Hassan	Hajer	0	2012-04-15
Sara Khalid	Ammar	1	2015-09-20
Onar Saad	Alya	0	2010-12-05
Fatma Hassan	Mamr	1	2018-07-30
Yusuf Salm	Maged	0	2016-02-11

Query executed successfully.