

company DB.sql - DESKTOP-BLAC28R\companyDB (DESKTOP-BLAC28R\fathi (68)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

Object Explorer

companyDB

```

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

```

	Dname	Dnamee	ManagerID	ManagerFullName
1	Drum	1	Ali Hassan	
2	Finance	3	Omar Saeed	
3	IT	5	Yuuf Salim	
4	Marketing	2	Sara Khalid	
5	Operations	4	Fatima Nasser	
6	HR	1	Ali Hassan	
7	Finance	3	Omar Saeed	
8	IT	5	Yuuf Salim	
9	Marketing	2	Sara Khalid	
10	Operations	4	Fatima Nasser	
11	HR	1	Ali Hassan	
12	Finance	3	Omar Saeed	
13	IT	5	Yuuf Salim	
14	Marketing	2	Sara Khalid	
15	Operations	4	Fatima Nasser	

Query executed successfully.

company DB.sql - DESKTOP-BLAC28R\companyDB (DESKTOP-BLAC28R\fathi (68)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

Object Explorer

companyDB

```

select * from Employee;
select * from Department;
select * from Location;
select * from Project;
select * from EPDIndependent;
select * from WorkingHours;
-----Join-----
SELECT
    D.Dname, D.Dnamee, 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.Dname = P.Dname;

```

	Dname	Pname
1	Finance	Payroll System
2	IT	Website Upgrade
3	HR	Recruitment Drive
4	Marketing	Ad Campaign
5	Operations	Logistics Optimization

Query executed successfully.

company DB.sql - DESKTOP-BLAC28R.companyDB (DESKTOP-BLAC28R\fathi (68)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

New Query New Query (2) Execute ✓ SQL Script Find Replace All Go Back Forward Home Refresh

Object Explorer companyDB * companyDB - D_LAC28R\fathi (68) * +

Connect to: DESKTOP-BLAC28R (SQL Server 15.0.2000.5) companyDB

Databases System Databases Database Snapshots AirlineDB LibraryManagementSystem collageDB2 Company_SD companyDatabase companyDB

Tables Employee Department Location Project EPHDependent WorkingHours

Views

External Resources

Synonyms

Programmability

Asymmetric Broker

Storage

Security

LibraryManagementSystem

Security

Server Objects

Replication

PolyBase

Always On High Availability

Management

Integration Services Catalogs

SQL Server Agent (Agent XPs disabled)

Adventure Profiler

select*from Employee;

select*from Department;

select*from Location;

select*from Project;

select*from EPHDependent;

select*from WorkingHours;

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 EPHDependent ED , Employee E
where ED.EmpSSN = E.SSN;

Results Messages

DepID	EmpSSN	Dnum	Gender	DBDate	EmployeeFullName
1	1	2	1	1	2015-05-15 Ali Hamza
2	2	2	1	1	2015-05-20 Sami Valid
3	3	2	2	0	2010-10-20 Omar Saied
4	4	4	2	1	2018-07-30 Fatma Nasser
5	5	5	3	0	2016-02-11 Yusuf Salm

Query executed successfully.

DESKTOP-BLAC28R (15.0 RTM) DESKTOP-BLAC28R\fathi... companyDB 00:00:00 10 rows

Ready 24C Sunny

Search

Ln 140 Col 1 Ch 1 RS

11:57 AM 12/21/2018 ENG

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to 'company DB.qll - DESKTOP-BLAC28R\companyDB' (DESKTOP-BLAC28R(fathi [6])) - Microsoft SQL Server Management Studio (Administrator). The Object Explorer sidebar shows the database structure, including 'companyDB' and its tables: Employee, Department, Location, Project, EPDDependent, WorkingHours, and others. The main window displays a T-SQL query:

```
select * from Employee;
select * from Department;
select * from Location;
select * from Project;
select * from EPDDependent;
select * from WorkingHours;

-----join-----
SELECT D.Dname, D.Dnum, 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.FirstName + ' ' + E.LastName AS EmployeeFullName
FROM EPDDependent ED, Employee E
WHERE ED.EmpSSN = E.SSN;

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

The results pane at the bottom shows the output of the last query:

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

At the bottom left, a message says 'Query executed successfully.' The status bar at the bottom right shows the system is 'Ready', the date and time as '12/01/2023 00:00:00', and there are 6 rows returned.

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to 'companyDB' on 'DESKTOP-BLAC28R' (SQL Server 15.0.2600.6) via ODBC Driver (TDS). The 'Object Explorer' pane on the left lists the database structure, including 'Databases' (System Databases, Database Snapshots), 'Tables' (AirlineDB, BankingSystem, College, collegeDB, Company_SD, companyDatabase, companyDB), 'Views', 'Synonyms', 'Programmability' (Stored Procedures, Triggers, Functions, Assemblies), 'Security' (Logins, Roles, Principals), 'LibraryManagementSystem', 'Security', 'Server Objects', 'Replication', 'PolyBase', 'Always On High Availability', 'Management', and 'Integration Services Catalogs'. The 'Query' menu is open, showing options like 'New Query', 'New Results', 'New Script', etc. The 'Results' tab in the bottom pane displays the results of a query that joined 'Department' and 'Employee' tables to get manager information, and then joined 'Employee' and 'Project' tables to get project names. The results table has columns: Pnum, Name, PLocation, City, and Drnum. One row is shown: 4, Ad Campaign, Branch, Salalah, 4. A status bar at the bottom right shows the date and time as 12/21/2025 12:03 PM.

company DB.sql - DESKTOP-BLAC28R\companyDB (DESKTOP-BLAC28R\fathi (86)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q)

Object Explorer

Connect to: DESKTOP-BLAC28R (SQL Server 15.0.2600.6) companyDB

Databases System Databases Database Snapshots AirlineDB BankingSystem College collegeDB Company_SD companyDatabase companyDB

Tables Database Diagrams Tables Views External Resources Synonyms Programmability Stored Procedures Triggers Functions Assemblies Security LibraryManagementSystem

Security Server Objects Replication PolyBase Always On High Availability Management Integration Services Catalogs SQL Server Agent (Agent Jobs disabled) Alert Monitor

companyDB

companyDB (D... LAC28R\fathi (990)) * X

```
select*from Department;
select*from Dlocation;
select*from Project;
select*from EMPDependent;
select*from WorkingHours;
-----join-----
-----SELECT
D.Dname, D.Dname, D.EmpSN 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.ID, 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');
-----SELECT
FROM Project
WHERE Pname LIKE 'A%'
```

Results Messages

Pnum	Name	PLocation	City	Drnum
1	4	Ad Campaign	Branch	Salalah

Query executed successfully.

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

Ready 24C Sunny

Ln 148 Col 1 Ch 1 INS

Search 12/21/2025 12:03 PM

The screenshot shows the Microsoft SQL Server Management Studio (Administrator) interface. The title bar indicates the connection is to companyDB on DESKTOP-BLAC28R (fathi (68)) - Microsoft SQL Server Management Studio (Administrator).

The Object Explorer sidebar on the left lists the database structure, including the companyDB database and its tables (e.g., Employees, Departments, Projects), along with other system databases and objects.

The main window contains a query editor with the following T-SQL script:

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

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

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

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

SELECT *
FROM Project
WHERE Pname LIKE 'AN';

SELECT E.SSN, E.FirstName, E.LastName, Salary
FROM Employee E
WHERE E.Dnum = 1
AND Salary BETWEEN 1800 AND 2000;
```

The results pane at the bottom displays the output of the last SELECT statement:

	SSN	FirstName	LastName	Salary
1	1	Ali	Hassen	1500.00
2	2	Sara	Khalid	1800.00

The status bar at the bottom right shows the session details: DESKTOP-BLAC28R (15.0 RTM) - DESKTOP-BLAC28R\fathi - companyDB 00:00:00 2 rows.

company DB.sql - DESKTOP-BLAC2B8R\companyDB (DESKTOP-BLAC2B8R\fathi (68)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

Object Explorer

Connect to... + Add

companyDB

- Connect to... DESKTOP-BLAC2B8R (SQL Server 15.0)...
- Databases
 - System Databases
 - Database Snapshots
 - AirlineDB
 - LibraryManagementSystem
 - college
 - collegeDB2
 - Company_SD
 - companyDatabase
 - companyDB
 - Tables
 - Database Diagrams
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Security Broker
 - Storage
 - Security
 - LibraryManagementSystem
- Security
- Server Objects
- Replication
- Policy-Based
- AlwaysOn High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- Adventure Profiler

company DB.sql - D:\LAB2015\Lab06\ | x

D.Dnum , D.Dname , D.EmpSSN AS ManagerID , E.FirstName + ' ' + E.LastName AS ManagerFullName

FROM Department D , Employee E

where D.EmpSSN = E.ESSN;

SELECT D.Dname , P.Pname

FROM Department D , Project P

where D.Dnum = P.Dnum;

SELECT ED.EDnum , E.FirstName + ' ' + E.LastName AS EmployeeFullName

FROM EPDIndependent ED , Employee E

where ED.EmpSSN = E.ESSN;

SELECT Pnum , Pname , City

FROM Project

WHERE City IN ('Muscat' , 'Sur');

SELECT Pnum , Pname

FROM Project

WHERE Pname LIKE 'AK%'

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 EmployeeProject M

ON E.SSN = M.EmpSSN

JOIN Project P

ON M.Pnum = P.Pnum

WHERE E.Dnum = 1

AND M.NumHours >= 10

AND P.Pname = 'Payroll System';

Results Messages

FirstName	LastName
All	Hassan

Query executed successfully.

DESKTOP-BLAC2B8R (15.0 RTM) DESKTOP-BLAC2B8R\fathi ... companyDB 00:00:00 1 rows

Ready 24C Sunny 12:44 PM 12/21/2018

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to 'companyDB' on 'DESKTOP-BLAC28R' (fathi [60]) - Microsoft SQL Server Management Studio (Administrator). The Object Explorer on the left shows the database structure, including tables like 'Employee', 'Project', and 'WorkingHours'. A query editor window is open with the following T-SQL code:

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

SELECT E
FROM Project
WHERE Pname LIKE 'AN%';

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,
       E.WorkingHours
FROM Employee E
JOIN WorkingHours W
ON E.SSN = W.EmpSSN
JOIN Project P
ON E.Pnum = P.Pnum
WHERE E.Dnum = 1
AND W.Hours >= 10
AND P.Pname = 'Payroll System';

SELECT E.FirstName, E.LastName
FROM Employee E
WITH (NOLOCK)
WHERE E.SSN = 6559
AND S.FirstName = 'Omar'
AND S.LastName = 'Seed';
```

The results pane at the bottom shows two rows of data from the last query:

	FirstName	LastName
1	Omar	Seed
2	Sara	Khalid

A status bar at the bottom right shows the system is 'Ready' with a 'Sunny' icon, the date '12/21/2023', and the time '12:57 PM'. The taskbar includes icons for File Explorer, Search, Task View, Start, Control Panel, File History, Sync Center, and Google Chrome.

company DB.sql - DESKTOP-BLAC2B8R.companyDB (DESKTOP-BLAC2B8R\fatih (68)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

companyDB

Object Explorer

Connect to... Help

companyDB - [D:\LAC2B8R\fatih (68)] * x

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

SELECT E
FROM Project
WHERE Pname LIKE 'AN';

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,
P.ProjectName
FROM Employee E
JOIN Workingschedule W
ON E.SSN = W.EmpSSN
JOIN Project P
ON W.ProjectID = P.Pnum
WHERE E.Dnum = 1
AND W.HoursHours >= 10
AND P.Pname = 'Payroll System';

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

SELECT E.FirstName, E.LastName AS EmployeeName, P.Pname
FROM Employee E
JOIN Workingschedule W
ON E.SSN = W.EmpSSN
JOIN Project P
ON W.Pnum = P.Pnum
ORDER BY P.Pname;

100 %

Results Messages

	EmployeeName	Pname
1	Fatima Nasser	Ad Campaign
2	Taha Saied	System Optimization
3	Ahmed Hassan	Payroll System
4	Sara Khalid	Recruitment Drive
5	Omar Saied	Website Upgrade

Query executed successfully.

DESKTOP-BLAC2B8R (15.0 RTM) DESKTOP-BLAC2B8R\fatih ... companyDB 00:00:00 5 rows

Ready

25°C Sunny

Search

LN 103 Col 1 Ch 1 RS

11:01 PM 12/21/2023 ENG

company DB.sql - DESKTOP-BLAC2B8R.companyDB (DESKTOP-BLAC2B8R\fatih ([8])) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q)

Object Explorer

Connect - fatih companyDB

DESKTOP-BLAC2B8R SQL Server 15.0.2000.180

Databases

System Databases

Database Snapshots

AdventureDB

AdventureLog

BankingSystem

college

collegeDB

Company_SD

companyDatabase

companyDB

Database Diagrams

Tables

Views

External Resources

Synonyms

Programmability

Security

Broker

Storage

Security

LibraryManagementSystem

Securables

Object Types

Replication

Polybase

AlwaysOn High Availability

Management

Integration Services Catalogs

SQL Server Agent (Agent XPs disabled)

Adventure Profiler

companyDB - D...LAC2B8R\fatih ([8])

SELECT E.SSN, E.FirstName, E.LastName, Salary
FROM Employee E
JOIN Department D
ON E.DID = D.DID
AND Salary BETWEEN 1000 AND 2000;

SELECT
E.FirstName,
E.LastName
FROM Employee E
JOIN Employee S
ON E.SSN = S.SSN
JOIN Project P
ON S.Pnum = P.Pnum
WHERE S.Hours >= 10
AND P.Name = '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 = 'Saed';

SELECT E.FirstName + ' ' + E.LastName AS EmployeeName, P.Pname
FROM Employee E
JOIN Workingshours W
ON E.SSN = W.EmpSSN
JOIN Project P
ON W.Pnum = P.Pnum
ORDER BY P.Pname;

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 D.EmpSSN = E.SSN
WHERE P.City = 'Muscat';

Results

Pnum	Dname	ManagerLastName	Birthdate
1	Finance	Saed	1982-11-05
2	IT	Omar	1988-09-30

Query executed successfully.

Ready

25°C Sunny

Search

DESKTOP-BLAC2B8R (15.0 RTM) DESKTOP-BLAC2B8R\fatih ... companyDB 00:00:00 4 rows

12/21/2023 11:04 PM

company DB.sql - DESKTOP-BLAC2B8\companyDB (DESKTOP-BLAC2B8\fathi (68)) - Microsoft SQL Server Management Studio (Administrator)

```

SELECT E.FirstName + ' ' + E.LastName AS EmployeeName, P.Pname
FROM Employee E
JOIN Department D
ON E.SSN = D.Dnum
WHERE E.SuperID = 5
AND P.Pname = 'Payroll System';

SELECT E.FirstName, E.LastName
FROM Employee E
JOIN Employee M
ON E.SuperID = M.EmpSSN
WHERE M.FFirstName = 'Omar'
AND S.LastName = 'Saed';

SELECT E.FirstName + ' ' + E.LastName AS EmployeeName, P.Pname
FROM Employee E
JOIN Project P
ON E.Pnum = P.Pnum
ORDER BY P.Pname;

SELECT P.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.DSSN
WHERE P.City = 'Muscat';

SELECT DISTINCT E.*
FROM Employee E, Department D
where E.SSN = D.DempSSN;

SELECT E.FirstName + ' ' + E.LastName AS EmployeeName, ED.EDname, ED.Gender, ED.DRi-thdate
FROM Employee E
LEFT JOIN EDPEmployee ED
ON E.SSN = ED.EdSSN;

```

Results Messages

E.SSN	Fname	LastName	Birthdate	Gender	SuperID	Dnum	Salary
1	Ali	Hassan	1985-03-12	M	3	1	1500.00
2	Sara	Khalid	1990-07-25	F	3	1	1800.00
3	Omar	Saed	1982-11-05	M	NULL	NULL	2200.00
4	Fatima	Nasser	1995-01-18	F	NULL	NULL	1300.00
5	Yousef	Salim	1988-09-30	M	NULL	NULL	2000.00

Query executed successfully.

company DB.sql - DESKTOP-BLAC2B8\companyDB (DESKTOP-BLAC2B8\fathi (68)) - Microsoft SQL Server Management Studio (Administrator)

```

SELECT E.FirstName + ' ' + E.LastName AS EmployeeName, P.Pname
FROM Employee E
JOIN Workhours W
ON E.SSN = W.EmpSSN
JOIN Project P
ON E.Pnum = P.Pnum
ORDER BY P.Pname;

SELECT P.Pnum, D.Dname, E.LastName AS ManagerLastName, E.Birthdate
FROM Project P
JOIN Department D
ON P.Dnum
JOIN Employee E
ON D.Dnum = E.DSSN
WHERE P.City = 'Muscat';

SELECT DISTINCT E.*
FROM Employee E, Department D
where E.SSN = D.DempSSN;

SELECT E.FirstName + ' ' + E.LastName AS EmployeeName, ED.EDname, ED.Gender, ED.DRi-thdate
FROM Employee E
LEFT JOIN EDPEmployee ED
ON E.SSN = ED.EdSSN;

```

Results Messages

EmployeeName	EDname	Gender	DRi-thdate
Ali Hassan	Hager	0	2012-04-15
Sara Khalid	Ammar	1	2015-09-05
Omar Saed	Aya	0	2016-05-05
Fatima Nasser	Maged	1	2016-07-30
Yousef Salim	Maged	0	2015-02-11

Query executed successfully.