

collage DB2.sql - DESKTOP-BLAC2BR.collageDB2 (DESKTOP-BLAC2BR/fathi (55)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

collageDB2

Object Explorer

Connect +

DESKTOP-BLAC2BR (SQL Server 15.0.2000.5 - D4)

Databases

Security

Server Objects

Replication

PolyBase

Always On High Availability

Management

Integration Services Catalogs

SQL Server Agent (Agent XPs disabled)

XEvent Profiler

collageDB2.sql - D..BLAC2BR/fathi (55) *

```
-- JoIn
--
SELECT D.DepID, D.DeptName, F.FacName AS FacultyName
FROM Department1 D, Faculty F
where F.FDepartment = D.DeptName;
```

100 %

Results Messages

DepID	DepName	FacultyName
1	Computer Science	Ali Hassan
2	Mathematics	Sara Ahmed
3	Physics	Osair Khald
4	Chemistry	Lala Sad
5	Biology	Nour Jamal

Query executed successfully.

DESKTOP-BLAC2BR (15.0 RTM) | DESKTOP-BLAC2BR/fathi ... | collageDB2 | 00:00:00 | 5 rows

Ready

24°C Sunny

Ln 303 Col 1 Ch 1 ENG 2:09 PM 12/21/2025

collage DB2.sql - DESKTOP-BLAC2BR.collageDB2 (DESKTOP-BLAC2BR/fathi (55)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

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Databases

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XEvent Profiler

collageDB2.sql - D..BLAC2BR/fathi (55) *

```
-- Insert a new student
INSERT INTO Student (StudID, FName, LName, EnrollmentDate, Status, GPA, Advisor)
VALUES (300045, 'Fathiya', 'Alfahdi', '2025-01-01', 'Active', 3.6, 'Dr. Advisor');

-- 15. Insert friend with GPA and Advisor NULL
INSERT INTO Student (StudID, FName, LName, EnrollmentDate, Status, GPA, Advisor)
VALUES (300046, 'Noura', 'Almuskari', '2025-01-01', 'Active', NULL, NULL);

-- 16. Increase your GPA by 0.2
UPDATE Student SET GPA = GPA + 0.2 WHERE StudID = 300045;

-- 17. Set GPA to 2.0 for students below 2.0
UPDATE Student SET GPA = 2.0 WHERE GPA < 2.0;

-- 18. Increase GPA by 0.1 for students enrolled before 2020
UPDATE Student SET GPA = GPA + 0.1 WHERE EnrollmentDate < '2020-01-01';

-- JoIn
--
SELECT D.DepID, D.DeptName, F.FacName AS FacultyName
FROM Department1 D, Faculty F
where F.FDepartment = D.DeptName;

SELECT C.CourseName, D.DeptName
FROM Course C, Department1 D
where C.DepID = D.DepID;
```

100 %

Results Messages

CourseName	DepName
Computer Science	Computer Science
Mathematics	Mathematics
Physics	Physics
Chemistry	Chemistry
Biology	Biology

Query executed successfully.

DESKTOP-BLAC2BR (15.0 RTM) | DESKTOP-BLAC2BR/fathi ... | collageDB2 | 00:00:00 | 5 rows

Ready

24°C Sunny

Ln 312 Col 1 Ch 1 ENG 2:15 PM 12/21/2025

collageDB2.sql - DESKTOP-BLAC2BR:collageDB2 (DESKTOP-BLAC2BR\fatih (55)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

collageDB2

Object Explorer

Connect to: collageDB2 - D:\BLAC2BR\fatih (55) ...

SQL Server 15.0.2000.5 - DESKTOP-BLAC2BR

Server Availability

Server Catalogs

Server Agent (Agent XPs disabled)

Query Editor

```
-- 15. Insert friend with GPA and Advisor NULL
INSERT INTO Student (StudID, FName, LName, EnrollmentDate, Status, GPA, Advisor)
VALUES (300046, 'Noura', 'AlHaskari', '2025-01-01', 'Active', NULL, NULL);

-- 16. Increase your GPA by 0.2
UPDATE Student SET GPA = GPA + 0.2 WHERE StudID = 300045;

-- 17. Set GPA to 2.0 for students below 2.0
UPDATE Student SET GPA = 2.0 WHERE GPA < 2.0;

-- 18. Increase GPA by 0.1 for students enrolled before 2020
UPDATE Student SET GPA = GPA + 0.1 WHERE EnrollmentDate < '2020-01-01';

-- Join
-- =====
SELECT D.DepID, D.DeptName, F.FacName AS FacultyName
FROM Department D, Faculty F
where F.Fid = D.DepID;

SELECT C.CourseName, D.DeptName
FROM Course C, Department D
where C.DepID = D.DepID;

SELECT S.SID, F.FacName AS AdvisorName
FROM Student S
LEFT JOIN stuoffaculty SF ON S.StudID = SF.StudID
LEFT JOIN Faculty F ON SF.FID = F.FID;
```

Results

StudID	FName	LName	DOB	HotelID	EnrollmentDate	Status	Advisor	GPA	AdvisorName
1	Alpha	AlHafthy	2002-05-14	2	2021-08-15	Active	Dr. Ali	3.40	Ali Hassan
2	Salim	AlSad	2001-11-22	4	2020-09-01	Active	Dr. Sara	3.60	Sara Ahmed
3	Fatma	AlBakr	2003-02-09	3	2022-01-10	Active	Dr. Omar	3.20	Omar Khalid
4	Wahid	AlHafthy	2000-08-20	5	2019-07-20	Inactive	Dr. Laila	2.90	Laila Sad
5	Noor	AlKen	2002-12-17	1	2021-05-12	Active	Dr. Nour	3.00	Nour Jamal
6	300045	Fatma	AlHafthy	NULL	2025-01-01	Active	Dr. Advisor	3.80	NULL
7	300046	Noura	AlHaskari	NULL	2025-01-01	Active	NULL	NULL	NULL

Query executed successfully.

DESKTOP-BLAC2BR (15.0 RTM) | DESKTOP-BLAC2BR\fatih ... | collageDB2 | 00:00:00 | 7 rows

Ready

24°C Sunny

Ln 315 Col 1 Ch 1 IN5

2:45 PM 12/21/2025

collageDB2.sql - DESKTOP-BLAC2BR:collageDB2 (DESKTOP-BLAC2BR\fatih (55)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

collageDB2

Object Explorer

Connect to: collageDB2 - D:\BLAC2BR\fatih (55) ...

SQL Server 15.0.2000.5 - DESKTOP-BLAC2BR

Server Availability

Server Catalogs

Server Agent (Agent XPs disabled)

Query Editor

```
-- 17. Set GPA to 2.0 for students below 2.0
UPDATE Student SET GPA = 2.0 WHERE GPA < 2.0;

-- 18. Increase GPA by 0.1 for students enrolled before 2020
UPDATE Student SET GPA = GPA + 0.1 WHERE EnrollmentDate < '2020-01-01';

-- Join
-- =====
SELECT D.DepID, D.DeptName, F.FacName AS FacultyName
FROM Department D, Faculty F
where F.Fid = D.DepID;

SELECT C.CourseName, D.DeptName
FROM Course C, Department D
where C.DepID = D.DepID;

SELECT S.SID, F.FacName AS AdvisorName
FROM Student S
LEFT JOIN stuoffaculty SF ON S.StudID = SF.StudID
LEFT JOIN Faculty F ON SF.FID = F.FID;

SELECT E.ExamCode AS ClassID, C.CourseName, E.ExamRoom
FROM Exam E
JOIN stuoffaculty SC ON S.StudID = SC.StudID
JOIN Course C ON SC.CourseID = C.CourseID
WHERE E.ExamRoom LIKE 'SAX' OR E.ExamRoom LIKE 'NAX';
```

Results

ClassID	CourseName	ExamRoom
1	Computer Science	RoomA
2	Computer Science	RoomB
3	Mathematics	RoomA
4	Mathematics	RoomB
5	Physics	RoomA
6	Physics	RoomB
7	Chemistry	RoomA
8	Chemistry	RoomB
9	Biology	RoomA
10	Biology	RoomB

Query executed successfully.

DESKTOP-BLAC2BR (15.0 RTM) | DESKTOP-BLAC2BR\fatih ... | collageDB2 | 00:00:00 | 10 rows

Ready

24°C Sunny

Ln 320 Col 1 Ch 1 IN5

3:00 PM 12/21/2025

collageDB2.sql - DESKTOP-BLAC2BR\collageDB2 (DESKTOP-BLAC2BR\Fatma (SS)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

collageDB2

Object Explorer

Connect to collageDB2 (SQL Server 15.0.2000.5 - DESKTOP-BLAC2BR)

Query Editor

```

-- UPDATE Student SET GPA = GPA + 0.1 WHERE EnrollmentDate < '2020-01-01';

-- Join
-- =====
SELECT D.DepID, D.DeptName, F.Facname AS FacultyName
FROM Department D, Faculty F
WHERE F.Department = D.DepID;

SELECT C.CourseName, D.DeptName
FROM Course C, Department D
WHERE C.DepID = D.DepID;

SELECT S.SID, F.Facname AS AdvisorName
FROM Student S
LEFT JOIN studFaculty SF ON S.StudID = SF.StudID
LEFT JOIN Faculty F ON SF.FID = F.FID;

SELECT E.ExamCode AS ClassID, C.CourseName, E.ExamRoom
FROM Exam E
JOIN studCourse SC ON SC.StudID = SC.StudID
JOIN Course C ON SC.CourseID = C.CourseID
WHERE E.ExamRoom LIKE 'NAX' OR E.ExamRoom LIKE 'NAX';

SELECT *
FROM Course
WHERE CourseName LIKE 'NAX';

```

Results

CourseID	CourseName	Duration	DepID
1	2	Mathematics	3

Query executed successfully.

DESKTOP-BLAC2BR (15.0 RTM) | DESKTOP-BLAC2BR\Fatma ... | collageDB2 | 00:00:00 | 1 rows

Ready 24°C Sunny

collageDB2.sql - DESKTOP-BLAC2BR\collageDB2 (DESKTOP-BLAC2BR\Fatma (SS)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

collageDB2

Object Explorer

Connect to collageDB2 (SQL Server 15.0.2000.5 - DESKTOP-BLAC2BR)

Query Editor

```

SELECT D.DepID, D.DeptName, F.Facname AS FacultyName
FROM Department D, Faculty F
WHERE F.Department = D.DepID;

SELECT C.CourseName, D.DeptName
FROM Course C, Department D
WHERE C.DepID = D.DepID;

SELECT S.SID, F.Facname AS AdvisorName
FROM Student S
LEFT JOIN studFaculty SF ON S.StudID = SF.StudID
LEFT JOIN Faculty F ON SF.FID = F.FID;

SELECT E.ExamCode AS ClassID, C.CourseName, E.ExamRoom
FROM Exam E
JOIN studCourse SC ON SC.StudID = SC.StudID
JOIN Course C ON SC.CourseID = C.CourseID
WHERE E.ExamRoom LIKE 'NAX' OR E.ExamRoom LIKE 'NAX';

SELECT *
FROM Course
WHERE CourseName LIKE 'NAX';

SELECT S.Fname, S.Lname
FROM Student S
JOIN studCourse SC ON S.StudID = SC.StudID
WHERE SC.CourseID = 3
AND S.GPA >= 2.5 AND S.SID > 3;

```

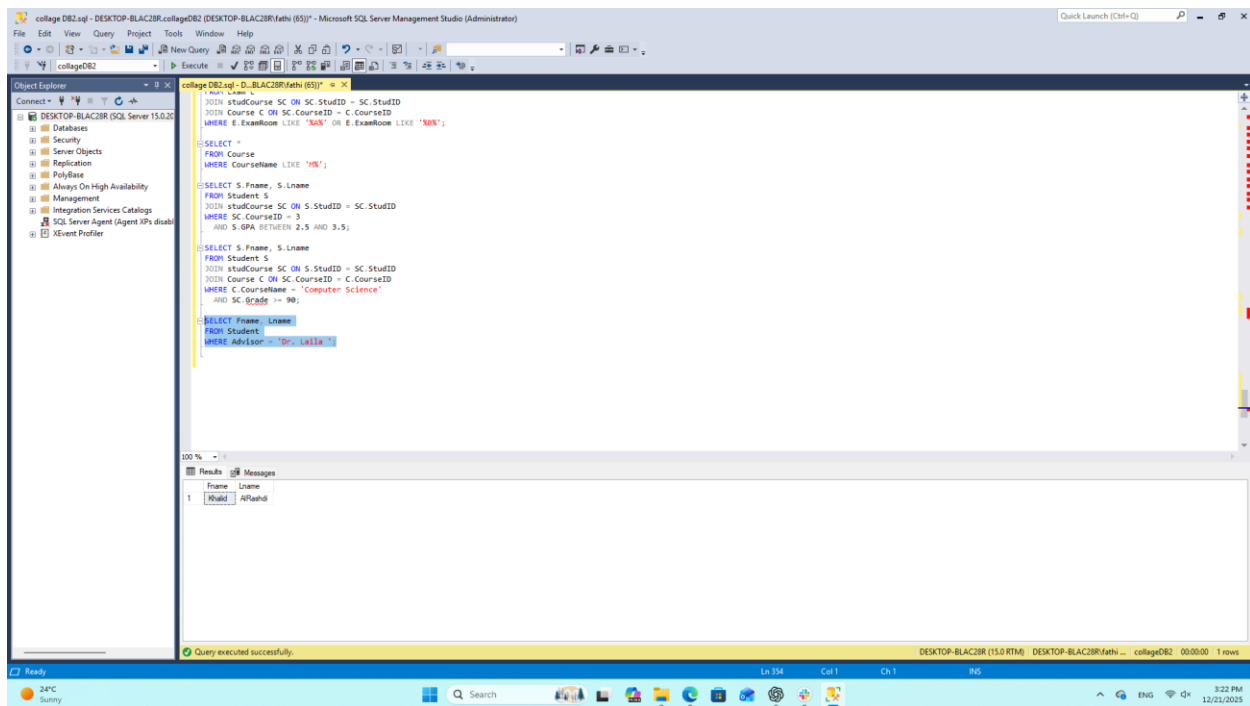
Results

Fname	Lname
Fatma	ABulahi

Query executed successfully.

DESKTOP-BLAC2BR (15.0 RTM) | DESKTOP-BLAC2BR\Fatma ... | collageDB2 | 00:00:00 | 1 rows

Ready 24°C Sunny



The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The query editor contains the following SQL code:

```

-- From Law 7
2019 studCourse SC ON SC.StudID = SC.StudID
2019 Course C ON SC.CourseID = C.CourseID
WHERE E.ExamRoom LIKE 'N%' OR E.ExamRoom LIKE 'N%';

-- SELECT *
FROM Course
WHERE CourseName LIKE 'N%';

-- SELECT S.Fname, S.Lname
FROM Student S
2019 studCourse SC ON S.StudID = SC.StudID
2019 Course C ON SC.CourseID = C.CourseID
WHERE S.DPA BETWEEN 2.5 AND 3.5;

-- SELECT S.Fname, S.Lname
FROM Student S
2019 studCourse SC ON S.StudID = SC.StudID
2019 Course C ON SC.CourseID = C.CourseID
WHERE C.CourseName = 'Computer Science'
AND SC.Grade >= 90;

-- SELECT Fname, Lname
FROM Student
WHERE Advisor = 'Dr. Laila';

-- SELECT S.Fname, S.Lname, C.CourseName
FROM Student S
2019 studCourse SC ON S.StudID = SC.StudID
2019 Course C ON SC.CourseID = C.CourseID
ORDER BY C.CourseName;

```

The Results pane shows the following data:

	Fname	Lname	CourseName
1	Noor	Alen	Biology
2	Khalid	AlRahdi	Chemistry
3	Ahna	AlHady	Computer Science
4	Salm	AlSad	Mathematics
5	Fatma	AlBakhi	Physics

The status bar at the bottom indicates "Query executed successfully." and "5 rows".

10. For each class in Building 'Main', retrieve class ID, course name, department name, and faculty name teaching the class.

I have another data in this question

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The query editor contains the following SQL code:

```

-- From Student 5
2019 studCourse SC ON S.StudID = SC.StudID
2019 Course C ON SC.CourseID = C.CourseID
WHERE C.CourseName = 'Computer Science'
AND SC.Grade >= 90;

-- SELECT Fname, Lname
FROM Student
WHERE Advisor = 'Dr. Laila';

-- SELECT S.Fname, S.Lname, C.CourseName
FROM Student S
2019 studCourse SC ON S.StudID = SC.StudID
2019 Course C ON SC.CourseID = C.CourseID
ORDER BY C.CourseName;

-- SELECT DISTINCT F.Facname
FROM Faculty F
2019 Department D ON F.Department = D.Department;

```

The Results pane shows the following data:

	Facname
1	Al Hassan
2	Laila Said
3	Nour Jamal
4	Omar Khalid
5	Sara Ahmed

The status bar at the bottom indicates "Query executed successfully." and "5 rows".

collageDB2.sql - DESKTOP-BLAC2BR.collageDB2 (DESKTOP-BLAC2BR\fatih (SS)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

collageDB2

Object Explorer

- DESKTOP-BLAC2BR (SQL Server 15.0.20)
- Databases
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- Event Viewer

collageDB2.sql - D:\BLAC2BR\fatih (SS) ->

```
SELECT S.Facname, S.Lname, C.CourseName
FROM Student S
JOIN studCourse SC ON S.StudID = SC.StudID
JOIN Course C ON SC.CourseID = C.CourseID
WHERE C.CourseName = 'Computer Science'
AND SC.Grade >= 90;

SELECT S.Facname, S.Lname, C.CourseName
FROM Student S
JOIN studCourse SC ON S.StudID = SC.StudID
JOIN Course C ON SC.CourseID = C.CourseID
ORDER BY C.CourseName;

SELECT DISTINCT F.Facname
FROM Faculty F
JOIN Department D ON F.DepartmentID = D.DepartmentID;

SELECT S.Facname AS AdvisorName
FROM Student S
LEFT JOIN studFaculty SF ON S.StudID = SF.StudID
LEFT JOIN Faculty F ON SF.FID = F.FID;
```

100 %

Results Messages

	StudID	Facname	Lname	DOB	HostID	EnrollmentDate	Status	Advisor	GPA	AdvisorName
1	1	Ahmed	AlHajjaj	2002-05-14	2	2021-08-15	Active	Dr. Ali	3.40	Ali Hassan
2	2	Salm	AlSad	2001-11-22	4	2020-09-01	Active	Dr. Sara	3.60	Sara Ahmed
3	3	Fatma	AlBakr	2003-02-09	3	2022-01-10	Active	Dr. Omar	3.20	Omar Khalid
4	4	Khalid	AlHadi	2000-08-20	5	2019-07-20	Inactive	Dr. Laila	2.90	Laila Said
5	5	Noor	AlNori	2002-12-17	1	2021-05-12	Active	Dr. Nour	3.80	Nour Jamal
6	300045	Fatma	AlHadi	NULL	NULL	2025-01-01	Active	Dr. Advisor	3.80	NULL
7	300046	Noura	AlHadi	NULL	NULL	2025-01-01	Active	NULL	NULL	NULL

Query executed successfully.

DESKTOP-BLAC2BR (15.0 RTM) | DESKTOP-BLAC2BR\fatih ... | collageDB2 | 00:00:00 | 7 rows

Ready

24°C Sunny

Ln 368 Col 1 Ch 1 IN

Search

3:42 PM 12/21/2025