

SQLQuery2.sql - DESKTOP-BLAC2B8.collageDB2 (DESKTOP-BLAC2B8\fatih (S2)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: DESKTOP-BLAC2B8 (SQL Server 15.0.2000) > Databases > collageDB2

```
-- DDL Queries
-- =====
-- 1. All students
SELECT * FROM Student;

-- 2. Full name, enrollment date, status
SELECT CONCAT(Fname, ' ', LName) AS FullName, EnrollmentDate, Status FROM Student;

-- 3. Course title and credits
SELECT CourseName, Duration AS Credits FROM Course;

-- 4. Full name and GPA Score
SELECT CONCAT(Fname, ' ', LName) AS FullName, GPA AS [GPA Score] FROM Student;

-- 5. Students with GPA > 3.5
SELECT StudID, CONCAT(Fname, ' ', LName) AS FullName FROM Student WHERE GPA > 3.5;

-- 6. Students enrolled before 2022
SELECT * FROM Student WHERE EnrollmentDate < '2022-01-01';

-- 7. Students with GPA between 3.0 and 3.5
SELECT * FROM Student WHERE GPA BETWEEN 3.0 AND 3.5;

-- 8. Students ordered by GPA descending
SELECT * FROM Student ORDER BY GPA DESC;

-- 9. Max, Min, Avg GPA
SELECT MAX(GPA) AS MaxGPA, MIN(GPA) AS MinGPA, AVG(GPA) AS AvgGPA FROM Student;

-- 10. Total students
SELECT COUNT(*) AS TotalStudents FROM Student;

-- 11. Students whose names end with 'a'
SELECT * FROM Student WHERE Fname LIKE 'a';

-- 12. Students with NULL advisor
SELECT * FROM Student WHERE Advisor IS NULL;

-- 13. Students enrolled in 2021
SELECT * FROM Student WHERE YEAR(EnrollmentDate) = 2021;
```

Results: 5 rows

StudID	Fname	LName	DOB	HustID	EnrollmentDate	Status	Advisor	GPA
1	Asha	AlHady	2002-05-14	2	2021-08-15	Active	Dr. Ali	3.40
2	Salm	AlSad	2001-11-22	4	2020-09-01	Active	Dr. Sara	3.60
3	Fatma	ABalash	2003-02-09	3	2022-01-10	Active	Dr. Omar	3.20
4	Rhadi	AlFahd	2000-08-30	5	2019-07-20	Inactive	Dr. Laila	2.80
5	Noor	Alvni	2002-12-17	1	2021-05-12	Active	Dr. Noor	3.00

Query executed successfully.

SQLQuery2.sql - DESKTOP-BLAC2B8.collageDB2 (DESKTOP-BLAC2B8\fatih (S2)) - Microsoft SQL Server Management Studio (Administrator)

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Results: 5 rows

FullName	EnrollmentDate	Status
Alpha AlHady	2021-08-15	Active
Salm AlSad	2020-09-01	Active
Fatma ABalash	2022-01-10	Active
Rhadi AlFahd	2019-07-20	Inactive
Noor Alvni	2021-05-12	Active

Query executed successfully.

SQLQuery2.sql - DESKTOP-BLAC23R.collageDB2 (DESKTOP-BLAC23R\fatih (52)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

collageDB2

Object Explorer

Connect +

DESKTOP-BLAC23R (SQL Server 15.0.2000)

Databases

System Databases

Database Snapshots

collage

collageDB2

Company_SD

companyDatabase

companyDB

Security

Server Objects

Replication

PolyBase

Always On High Availability

Management

Integration Services Catalogs

SQL Server Agent (Agent XPs disabled)

XE Event Profiler

SQLQuery2.sql - DE_BLAC23R\fatih (52) - DESKTOP-BLAC23R.collage - Diagram O' collageDB2.sql - DE_BLAC23R\fatih (72)

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```

100 %

Results Messages

	CourseName	Credits
1	Computer Science	4
2	Mathematics	3
3	Physics	4
4	Chemistry	4
5	Biology	3

Query executed successfully.

DESKTOP-BLAC23R (15.0 RTM) | DESKTOP-BLAC23R\fatih ... | collageDB2 | 00:00:00 | 5 rows

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100 %

Results Messages

	FullName	GPA Score
1	Alpha AlHathy	3.40
2	Salm AlSad	3.60
3	Fatma AlBalash	3.20
4	Rhadi AlFahsh	2.80
5	Noor AlNas	3.00

Query executed successfully.

DESKTOP-BLAC23R (15.0 RTM) | DESKTOP-BLAC23R\fatih ... | collageDB2 | 00:00:00 | 5 rows

SQLQuery2.sql - DESKTOP-BLAC23R.collageDB2 (DESKTOP-BLAC23R\fatih (52)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: DESKTOP-BLAC23R (SQL Server 15.0.2000) > Databases > collage > collageDB2

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-- 13. Students enrolled in 2021
SELECT * FROM Student WHERE YEAR(EnrollmentDate) = 2021;
```

Results: 1 row(s)

StudID	FullName
1	Salm ASad

Query executed successfully.

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Results: 5 row(s)

StudID	Fname	LName	DOB	HostID	EnrollmentDate	Status	Advisor	GPA
1	Asha	Alhathy	2002-05-14	2	2021-08-15	Active	Dr. Ali	3.40
2	Salm	ASad	2001-11-22	4	2020-09-01	Active	Dr. Sara	3.60
3	Khalid	AlRashid	2000-08-30	5	2019-07-20	Inactive	Dr. Lale	2.80
4	Nour	Alm	2002-12-17	1	2021-05-12	Active	Dr. Nour	3.00

Query executed successfully.

SQLQuery2.sql - DESKTOP-BLAC23R.collageDB2 (DESKTOP-BLAC23R\fatih (52)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: Connect to DESKTOP-BLAC23R (SQL Server 15.0.2000) | Databases: System Databases, Database Snapshots, collage, collageDB2, Company_SD, companyDatabase, companyDB, Security, Server Objects, Replication, PolyBase, Always On High Availability, Management, Integration Services Catalogs, SQL Server Agent (Agent XPs disabled), XEvent Profiler

SQLQuery2.sql - DE_BLAC23R\fatih (52) | DESKTOP-BLAC23R.collage - Diagram O | collage DB.sql - DE_BLAC23R\fatih (72)

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Results Messages

StudID	Fname	LName	DOB	HustelID	EnrollmentDate	Status	Advisor	GPA
1	Asha	AlHarby	2002-05-14	2	2021-08-15	Active	Dr. Ali	3.40
2	Fatma	AlBalushi	2003-02-09	3	2022-01-10	Active	Dr. Omar	3.20
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SELECT * FROM Student WHERE YEAR(EnrollmentDate) = 2021;
```

Results Messages

StudID	Fname	LName	DOB	HustelID	EnrollmentDate	Status	Advisor	GPA
2	Salim	AlSad	2001-11-22	4	2020-09-01	Active	Dr. Sara	3.60
1	Asha	AlHarby	2002-05-14	2	2021-08-15	Active	Dr. Ali	3.40
3	Fatma	AlBalushi	2003-02-09	3	2022-01-10	Active	Dr. Omar	3.20
4	Nour	AlNou	2002-12-17	1	2021-09-12	Active	Dr. Nour	3.00
5	Rhadi	AlRahdi	2000-08-30	5	2019-07-20	Inactive	Dr. Laila	2.80

Query executed successfully.

SQLQuery2.sql - DESKTOP-BLAC2BR.collegeDB2 (DESKTOP-BLAC2BR\faht (52)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: Connect to DESKTOP-BLAC2BR (SQL Server 15.0.2000) > Databases > collegeDB2

Execute (F5):

```
-- DDL Queries
-- =====
-- 1. All students
SELECT * FROM Student;

-- 2. Full name, enrollment date, status
SELECT CONCAT(Fname, ' ', Lname) AS FullName, EnrollmentDate, Status FROM Student;

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SELECT CourseName, Duration AS Credits FROM Course;

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SELECT * FROM Student WHERE YEAR(EnrollmentDate) = 2021;
```

Results: Messages

	MaxGPA	MinGPA	AvgGPA
1	3.60	2.80	3.200000

Query executed successfully.

SQLQuery2.sql - DESKTOP-BLAC2BR.collegeDB2 (DESKTOP-BLAC2BR\faht (52)) - Microsoft SQL Server Management Studio (Administrator)

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Results: Messages

	TotalStudents
1	5

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-- 13. Students enrolled in 2021
SELECT * FROM Student WHERE YEAR(EnrollmentDate) = 2021;
```

Results: 2 rows

StudID	Fname	LName	DOB	HustID	EnrollmentDate	Status	Advisor	GPA
1	Asha	AlHathy	2002-05-14	2	2021-08-15	Active	Dr. Ali	3.40
2	Fatma	AlBulahi	2003-02-09	3	2022-01-10	Active	Dr. Omar	3.20

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-- 13. Students enrolled in 2021
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```

Results: 0 rows

StudID	Fname	LName	DOB	HustID	EnrollmentDate	Status	Advisor	GPA
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SELECT * FROM Student ORDER BY GPA DESC;

-- 9. Max, Min, Avg GPA
SELECT MAX(GPA) AS MaxGPA, MIN(GPA) AS MinGPA, AVG(GPA) AS AvgGPA FROM Student;

-- 10. Total students
SELECT COUNT(*) AS TotalStudents FROM Student;

-- 11. Students whose names end with 'a'
SELECT * FROM Student WHERE Fname LIKE '%a';

-- 12. Students with NULL advisor
SELECT * FROM Student WHERE Advisor IS NULL;

-- 13. Students enrolled in 2021
SELECT * FROM Student WHERE EnrollmentDate = 2021;
```

100 %

Results Messages

StudID	Fname	LName	DOB	HotelID	EnrollmentDate	Status	Advisor	GPA
1	Asha	AlHarthy	2002-05-14	2	2021-08-15	Active	Dr. Ali	3.40
2	Nour	AlNour	2002-12-17	1	2021-05-12	Active	Dr. Nour	3.00

Query executed successfully.

SQLQuery2.sql - DESKTOP-BLAC23R.collageDB2 (DESKTOP-BLAC23R\fatih (52)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: DESKTOP-BLAC23R (SQL Server 15.0.2000) > Databases > collageDB2

SQLQuery2.sql - DE-BLAC23R\fatih (52) > DESKTOP-BLAC23R.collage - Diagram O' collageDB2.sql - DE-BLAC23R\fatih (72)

```
-- 13. Students enrolled in 2021
SELECT * FROM Student WHERE YEAR(EnrollmentDate) = 2021;

-- DML Queries
-- *****
-- 14. Insert yourSELF
INSERT INTO Student (StudID, Fname, LName, EnrollmentDate, Status, GPA, Advisor)
VALUES (300045, 'Fatima', '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', 'AlMakari', '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';

-- 19. Delete students with status 'Inactive'
DELETE FROM Student WHERE Status = 'Inactive';
```

100 %

Results Messages

StudID	Fname	LName	DOB	HotelID	EnrollmentDate	Status	Advisor	GPA	
1	Asha	AlHarthy	2002-05-14	2	2021-08-15	Active	Dr. Ali	3.40	
2	Salim	AlSad	2001-11-22	4	2020-09-01	Active	Dr. Sara	3.60	
3	Fatma	AlBakshi	2003-02-09	3	2022-01-10	Active	Dr. Omar	3.20	
4	Rahil	AlFahdi	2000-08-30	5	2019-01-20	Inactive	Dr. Laila	2.80	
5	Nour	AlNour	2002-12-17	1	2021-05-12	Active	Dr. Nour	3.00	
6	300045	Fatima	AlFahdi	NULL	NULL	2025-01-01	Active	Dr. Advisor	3.60
7	300046	Noura	AlMakari	NULL	NULL	2025-01-01	Active	NULL	NULL

Query executed successfully.

SQLQuery2.sql - DESKTOP-BLAC2BR.collageDB2 (DESKTOP-BLAC2BR\fatih (SQ*)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

collageDB2

Object Explorer

- DESKTOP-BLAC2BR (SQL Server 15.0.2000)
- Databases
 - System Databases
 - Database Snapshots
 - collage
 - collageDB2
 - Company_SD
 - companyDatabase
 - companyDB
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Always On High Availability
 - Management
 - Integration Services Catalogs
 - SQL Server Agent (Agent XPs disabled)
 - XE Event Profiler

SQLQuery2.sql - DE_BLAC2BR\fatih (SQ*)

```
-- 10: Total students
SELECT MAX(GPA) AS MaxGPA, MIN(GPA) AS MinGPA, AVG(GPA) AS AvgGPA FROM Student;

-- 11: Total students
SELECT COUNT(*) AS TotalStudents FROM Student;

-- 11: Students whose names end with 'a'
SELECT * FROM Student WHERE Name LIKE '%a';

-- 12: Students with NULL advisor
SELECT * FROM Student WHERE Advisor IS NULL;

-- 13: Students enrolled in 2021
SELECT * FROM Student WHERE YEAR(EnrollmentDate) = 2021;

-- =====
-- DML Queries
-- =====
-- 14: Insert yourself
INSERT INTO Student (StudID, FName, LName, EnrollmentDate, Status, GPA, Advisor)
VALUES (300045, 'Fatihya', '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', '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';

-- 19: Delete students with status 'Inactive'
DELETE FROM Student WHERE Status = 'Inactive';
```

Results Messages

	StudID	FName	LName	DOB	HostID	EnrollmentDate	Status	Advisor	GPA
1	1	Aaha	AlHathy	2002-05-14	2	2021-08-15	Active	Dr. Ali	3.40
2	2	Salim	AlSad	2001-11-22	4	2020-09-01	Active	Dr. Sara	3.60
3	3	Fatima	AlBakr	2003-02-09	3	2022-01-10	Active	Dr. Omar	3.20
4	4	Khalid	AlFahdi	2000-08-30	5	2019-07-20	Inactive	Dr. Laila	2.80
5	5	Noor	AlNour	2002-12-17	1	2021-05-12	Active	Dr. Nour	3.00
6	300045	Fatihya	Alfahdi	NULL	NULL	2025-01-01	Active	Dr. Advisor	3.80
7	300046	Noura	Alhaskari	NULL	NULL	2025-01-01	Active	NULL	NULL

Query executed successfully.

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

Ready 27°C Sunny 1:15 PM 12/15/2025

SQLQuery2.sql - DESKTOP-BLAC23R\collageDB2 (DESKTOP-BLAC23R\fatih (52)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: Connect to DESKTOP-BLAC23R (SQL Server 15.0.2000) > Databases > collageDB2

```

SELECT COUNT(*) AS TotalStudents FROM Student;

-- 11. Students whose names end with 'a'
SELECT * FROM Student WHERE FName LIKE 'Sa';

-- 12. Students with NULL advisor
SELECT * FROM Student WHERE Advisor IS NULL;

-- 13. Students enrolled in 2021
SELECT * FROM Student WHERE YEAR(EnrollmentDate) = 2021;

-- DML Queries
-- =====
-- 14. Insert yourself
INSERT INTO Student (StudID, FName, LName, EnrollmentDate, Status, GPA, Advisor)
VALUES (300045, 'Fatihya', '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', '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';

-- 19. Delete students with status 'Inactive'
DELETE FROM Student WHERE Status = 'Inactive';

```

Results: Messages

StudID	FName	LName	DOB	HostID	EnrollmentDate	Status	Advisor	GPA
1	Aaha	AlHarthy	2002-05-14	2	2021-08-15	Active	Dr. Ali	3.40
2	Saln	AlSad	2001-11-22	4	2020-09-01	Active	Dr. Sara	3.60
3	Fatma	Alkhuah	2003-02-09	3	2022-01-10	Active	Dr. Omar	3.20
4	Khalid	AlFuehd	2000-08-30	5	2019-07-20	Inactive	Dr. Lale	2.90
5	Noor	AlNou	2002-12-17	1	2021-05-12	Active	Dr. Nour	3.00
6	300045	Fatihya	Alfahdi	NULL	2025-01-01	Active	Dr. Advisor	3.80
7	300046	Noura	Alhaskari	NULL	2025-01-01	Active	NULL	NULL

Query executed successfully.

SQLQuery2.sql - DESKTOP-BLAC23R\collageDB2 (DESKTOP-BLAC23R\fatih (52)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer: Connect to DESKTOP-BLAC23R (SQL Server 15.0.2000) > Databases > collageDB2

```

-- 10. Total students
SELECT COUNT(*) AS TotalStudents FROM Student;

-- 11. Students whose names end with 'a'
SELECT * FROM Student WHERE FName LIKE 'Sa';

-- 12. Students with NULL advisor
SELECT * FROM Student WHERE Advisor IS NULL;

-- 13. Students enrolled in 2021
SELECT * FROM Student WHERE YEAR(EnrollmentDate) = 2021;

-- DML Queries
-- =====
-- 14. Insert yourself
INSERT INTO Student (StudID, FName, LName, EnrollmentDate, Status, GPA, Advisor)
VALUES (300045, 'Fatihya', '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', 'Alhaskari', '2025-01-01', 'Active', NULL, NULL);

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

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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';

-- 19. Delete students with status 'Inactive'
DELETE FROM Student WHERE Status = 'Inactive';

```

Results: Messages

StudID	FName	LName	DOB	HostID	EnrollmentDate	Status	Advisor	GPA
1	Aaha	AlHarthy	2002-05-14	2	2021-08-15	Active	Dr. Ali	3.40
2	Saln	AlSad	2001-11-22	4	2020-09-01	Active	Dr. Sara	3.60
3	Fatma	Alkhuah	2003-02-09	3	2022-01-10	Active	Dr. Omar	3.20
4	Khalid	AlFuehd	2000-08-30	5	2019-07-20	Inactive	Dr. Lale	2.90
5	Noor	AlNou	2002-12-17	1	2021-05-12	Active	Dr. Nour	3.00
6	300045	Fatihya	Alfahdi	NULL	2025-01-01	Active	Dr. Advisor	3.80
7	300046	Noura	Alhaskari	NULL	2025-01-01	Active	NULL	NULL

Query executed successfully.