

Q1

```
-- Q1
CREATE TABLE Patient(
PatientID int IDENTITY(1,1) PRIMARY KEY,
Name varchar(15) NOT NULL,
Age int,
CHECK (Age>5),
Gender varchar(5),
Address varchar(20),
Disease varchar(10),
DoctorID varchar(15)
)

Commands completed successfully.

Completion time: 2026-02-13T10:46:20.6411025+05:00
```

[illegible]

Q2

```
Q1.sql - LAB15-01.24L-0583 (sa (77))  
Age int,  
CHECK (Age>5),  
Gender varchar(5),  
Address varchar(20),  
Disease varchar(10),  
DoctorID varchar(15)  
)  
  
-- Q2  
ALTER TABLE Patient  
ALTER COLUMN Gender char;  
  
214 %  
Messages  
Commands completed successfully.  
  
Completion time: 2026-02-13T10:46:49.5323731+05:00
```

[illegible]

Q3

```
Q1.sql - LAB15-01.24L-0583 (sa (77))  
ALTER COLUMN Gender char;  
  
-- Q3  
CREATE TABLE Doctor(  
    DoctorID int IDENTITY(1,1) PRIMARY KEY,  
    Name varchar (15) NOT NULL,  
    Age int,  
    CHECK (Age>18),  
    Gender char,  
    Address varchar(20)  
);  
  
214 %  
Messages  
Commands completed successfully.  
  
Completion time: 2026-02-13T10:47:26.6471327+05:00
```

DoctorID	Name	Age	Gender	Address
NULL	NULL	NULL	NULL	NULL

Q4 (The comment in the screenshot said Q3 but it is Q4. The SQL file is updated)

The screenshot shows a SQL IDE interface. The top pane displays SQL code for altering a table. The bottom pane shows a message indicating successful completion of the command. Below the message is a table representing the data in the 'Doctor' table.

```
Age int,  
CHECK (Age>18),  
Gender char,  
Address varchar(20)  
)  
  
-- Q3  
ALTER TABLE Doctor  
ADD DrSpecialization varchar(20)
```

214 %

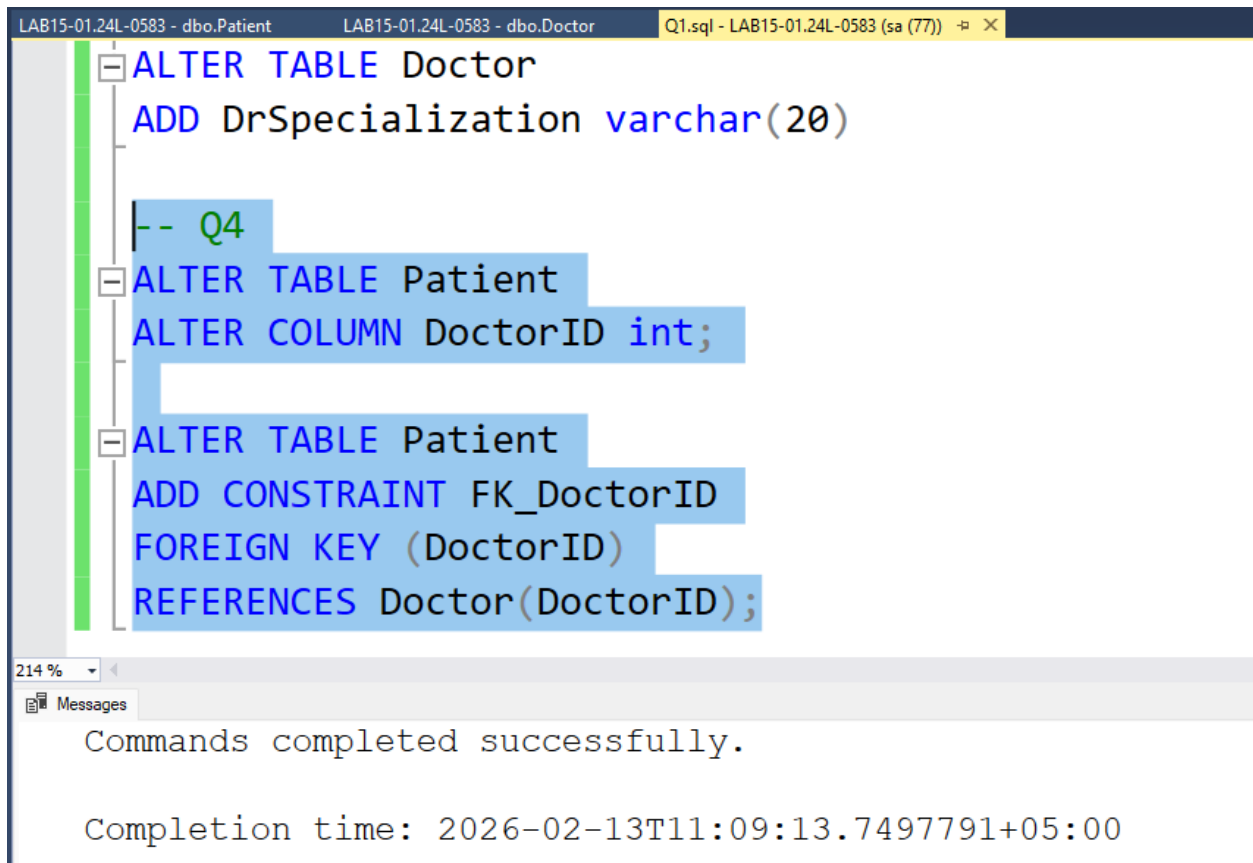
Messages

Commands completed successfully.

Completion time: 2026-02-13T10:51:47.7350151+05:00

	DoctorID	Name	Aqe	Gender	Address	DrSpecialization
»*	NULL	NULL	NULL	NULL	NULL	NULL

Q5 (The comment in the screenshot said Q4 but it is Q5. The SQL file is updated)



```
LAB15-01.24L-0583 - dbo.Patient LAB15-01.24L-0583 - dbo.Doctor Q1.sql - LAB15-01.24L-0583 (sa (77))  
ALTER TABLE Doctor  
ADD DrSpecialization varchar(20)  
  
-- Q4  
ALTER TABLE Patient  
ALTER COLUMN DoctorID int;  
  
ALTER TABLE Patient  
ADD CONSTRAINT FK_DoctorID  
FOREIGN KEY (DoctorID)  
REFERENCES Doctor(DoctorID);  
  
214 %  
Messages  
Commands completed successfully.  
  
Completion time: 2026-02-13T11:09:13.7497791+05:00
```

Q6

LAB15-01.24L-0583 - dbo.Patient LAB15-01.24L-0583 - dbo.Doctor Q1.sql - LAB15-01.24L-0583 (sa (77))

```
REFERENCES Doctor(DoctorID);

-- Q6
CREATE TABLE LabTest(
  LabID int IDENTITY(1,1) PRIMARY KEY,
  LabNo varchar(10) UNIQUE,
  TestDate date DEFAULT GETDATE(),
  TestAmount float,
  PatientID int REFERENCES Patient(PatientID),
  DoctorID int REFERENCES Doctor(DoctorID)
)
```

214 %

Messages

Commands completed successfully.

Completion time: 2026-02-13T11:15:42.8412541+05:00

LAB15-01.24L-0583 - dbo.LabTest		LAB15-01.24L-0583 - dbo.Patient		LAB15-01.24L-0583 - dbo.Doctor		Q1
	LabID	LabNo	TestDate	TestAmount	PatientID	DoctorID
▶*	NULL	NULL	NULL	NULL	NULL	NULL

Q7

LAB15-01.24L-0583 - dbo.LabTest Q1.sql - LAB15-01.24L-0583 (sa (77))

```
DOCTORID int REFERENCES Doctor (DoctorID),  
)  
  
-- Q7  
CREATE TABLE PatientBill(  
    BillID int IDENTITY(1,1) PRIMARY KEY,  
    BillDate date DEFAULT GETDATE(),  
    Amount varchar(20),  
    PatientID int REFERENCES Patient(PatientID),  
    DoctorID int REFERENCES Doctor(DoctorID)  
)
```

214 %

Messages

Commands completed successfully.

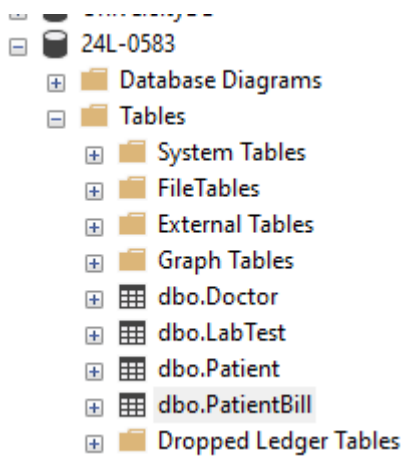
Completion time: 2026-02-13T11:18:25.8901068+05:00

LAB15-01.24L-0583 - dbo.PatientBill Q1.sql - LAB15-01.24L-0583 (sa (77))

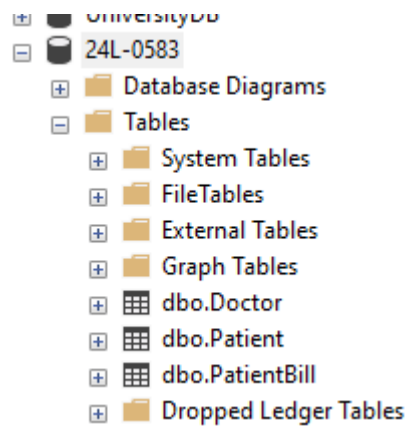
	BillID	BillDate	Amount	PatientID	DoctorID
▶*	NULL	NULL	NULL	NULL	NULL

Q8

Before:



After:



Query:

```
LAB15-01.24L-0583 - dbo.LabTest  Q1.sql - LAB15-01.24L-0583 (sa (77))
-- Q8
DROP TABLE LabTest;
```

214 %

Messages

Commands completed successfully.

Completion time: 2026-02-13T11:20:33.3584104+05:00

Q9

LAB15-01.24L-0583 - dbo.Doctor Q1.sql - LAB15-01.24L-0583 (sa (77))

```
DROP TABLE LabTest;

-- Q9
INSERT INTO Doctor (Name, Age, Gender, Address, DrSpecialization)
VALUES
('Asjad', 19, 'M', 'Karachi', 'Neuro Surgeon'),
('Ali', 19, 'M', 'Lahore', 'General Physician'),
('Rehan', 19, 'M', 'Islamabad', 'Cardio'),
('Shaheer', 20, 'M', 'Peshawar', 'Radiology');
```

214 % Messages

(4 rows affected)

Completion time: 2026-02-13T11:26:43.5970454+05:00

LAB15-01.24L-0583 - dbo.Doctor Q1.sql - LAB15-01.24L-0583 (sa (77))						
	DoctorID	Name	Age	Gender	Address	DrSpecialization
▶	1	Asjad	19	M	Karachi	Neuro Surgeon
	2	Ali	19	M	Lahore	General Physician
	3	Rehan	19	M	Islamabad	Cardio
	4	Shaheer	20	M	Peshawar	Radiology
*	NULL	NULL	NULL	NULL	NULL	NULL

Q10

```
LAB15-01.24L-0583 - dbo.Patient LAB15-01.24L-0583 - dbo.Doctor Q1.sql - LAB15-01.24L-0583 (sa (77)) - X
```

```
( 'Shaheer', 20, 'M', 'Peshawar', 'Radiology' );
```

```
-- Q10
```

```
INSERT INTO Patient (Name, Age, Gender, Address, Disease, DoctorID)
```

```
VALUES
```

```
( 'Momin', 25, 'M', 'Karachi', 'Flu', 1),
```

```
( 'Saood', 30, 'M', 'Lahore', 'Fever', 2),
```

```
( 'Dawar', 20, 'M', 'Islamabad', 'Cough', 3),
```

```
( 'Abdullah', 15, 'M', 'Peshawar', 'Allergy', 4);
```

```
214 %
```

```
Messages
```

```
(4 rows affected)
```

```
Completion time: 2026-02-13T11:31:20.3449527+05:00
```

[illegible]

Q11

```
LAB15-01.24L-0583 - dbo.Patient LAB15-01.24L-0583 - dbo.Doctor Q1.sql - LAB15-01.24L-0583 (sa (77))
('Saood', 30, 'M', 'Lahore', 'Fever', 2),
('Dawar', 20, 'M', 'Islamabad', 'Cough', 3),
('Abdullah', 15, 'M', 'Peshawar', 'Allergy', 4);

-- Q11
INSERT INTO PatientBill (Amount, PatientID, DoctorID)
VALUES
('1500', 1, 1), -- Bill for Momin with Doctor Asjad
('2000', 2, 2); -- Bill for Saood with Doctor Ali
```

214 %

Messages

(2 rows affected)

Completion time: 2026-02-13T11:32:57.7827760+05:00

LAB15-01.24L-0583 - dbo.PatientBill		LAB15-01.24L-0583 - dbo.Patient		LAB15-01.24L-0583 - dbo.Do	
	BillID	BillDate	Amount	PatientID	DoctorID
▶	1	2026-02-13	1500	1	1
	2	2026-02-13	2000	2	2
*	NULL	NULL	NULL	NULL	NULL

Q12 (Displayed all records as well as the patient bills more than 100)

LAB15-01.24L-0583 - dbo.PatientBill Q1.sql - LAB15-01.24L-0583 (sa (77))

```
( '2000', 2, 2); -- Bill for Saood with Doctor Ali
```

```
-- Q12
```

```
SELECT *
```

```
FROM Doctor
```

```
SELECT *
```

```
FROM Patient
```

```
SELECT *
```

```
FROM PatientBill
```

```
WHERE Amount > 100;
```

195 %

Results Messages

	DoctorID	Name	Age	Gender	Address	DrSpecialization
1	1	Ajad	19	M	Karachi	Neuro Surgeon
2	2	Ali	19	M	Lahore	General Physician
3	3	Rehan	19	M	Islamabad	Cardio
4	4	Shaheer	20	M	Peshawar	Radiology

	PatientID	Name	Age	Gender	Address	Disease	DoctorID
1	1	Momin	25	M	Karachi	Flu	1
2	2	Saood	30	M	Lahore	Fever	2
3	3	Dawar	20	M	Islamabad	Cough	3
4	4	Abdullah	15	M	Peshawar	Allergy	4

	BillID	BillDate	Amount	PatientID	DoctorID
1	1	2026-02-13	1500	1	1
2	2	2026-02-13	2000	2	2

Q13

LAB15-01.24L-0583 - dbo.PatientBillQ1.sql - LAB15-01.24L-0583 (sa (77))

SELECT *
FROM Patient

SELECT *
FROM PatientBill
WHERE Amount > 100;

-- Q13
DELETE FROM PatientBill;

195 %
Messages

(2 rows affected)

Completion time: 2026-02-13T11:41:53.1841884+05:00

LAB15-01.24L-0583 - dbo.PatientBillQ1.sql - LAB15-01.24L-0583 (sa (77))					
	BillID	BillDate	Amount	PatientID	DoctorID
▶*	NULL	NULL	NULL	NULL	NULL

Q14

Before:

[illegible]

Query:

```
LAB15-01.24L-0583 - dbo.Patient Q1.sql - LAB15-01.24L-0583 (sa (77))
```

```
-- Q13
DELETE FROM PatientBill;

-- Q14
DELETE FROM Patient
WHERE Name = 'Dawar';
```

195 %

Messages

(1 row affected)

Completion time: 2026-02-13T11:44:00.9838665+05:00

After:

[illegible]

