

SQLQuery3.sql - D:\...-MFQ3KVM\LG (52))* trigger_lesson_15...P-MFQ3KVM\LG (65))* lesson_15_task_2...P-MFQ3KVM\LG (60))

```

BEGIN TRY
-- Проверка наличия таблицы Directions
IF EXISTS (SELECT * FROM INFORMATION_SCHEMA.TABLES WHERE TABLE_NAME = 'Directions')
BEGIN
-- Добавление нового поля "IsEnrollmentClosed" в таблицу Directions, если его еще нет
IF NOT EXISTS (SELECT * FROM sys.columns WHERE object_id = OBJECT_ID(N'dbo.Directions') AND name = 'IsEnrollmentClosed')
BEGIN
ALTER TABLE dbo.Directions
ADD IsEnrollmentClosed BIT DEFAULT 0;
END

-- Добавление нового поля "TotalSeats" в таблицу Directions, если его еще нет
IF NOT EXISTS (SELECT * FROM sys.columns WHERE object_id = OBJECT_ID(N'dbo.Directions') AND name = 'TotalSeats')
BEGIN
ALTER TABLE dbo.Directions
ADD TotalSeats INT;
END

-- Обновление поля "Всего мест"
UPDATE dbo.Directions
SET TotalSeats = CASE
WHEN DirectionCode = 1 THEN 2
WHEN DirectionCode = 2 THEN 2
WHEN DirectionCode = 3 THEN 1
ELSE TotalSeats
END;

UPDATE dbo.Directions
SET IsEnrollmentClosed = CASE
WHEN (SELECT COUNT(*) FROM dbo.Students S
WHERE S.Direction = dbo.Directions.DirectionName AND
S.[Exam Score] >= dbo.Directions.MinScore) >= TotalSeats
THEN CAST(1 AS BIT)
ELSE CAST(0 AS BIT)
END;
END
ELSE

```

89 %

Results Messages

	DirectionCode	DirectionName	MinScore	IsEnrollmentClosed	TotalSeats
1	1	История	160	0	2
2	2	Право	180	0	2
3	3	Физика	200	1	1

Обновление структуры таблицы “Направления”

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USE [MYDB]
GO

-- Создание триггера для таблицы Students
CREATE TRIGGER trg_UpdateIsEnrollmentClosed
ON dbo.Students
AFTER INSERT
AS
BEGIN
SET NOCOUNT ON;

-- Обновление столбца IsEnrollmentClosed в таблице Directions
UPDATE D
SET D.IsEnrollmentClosed = CASE
WHEN (SELECT COUNT(*)
FROM dbo.Students S
WHERE S.Direction = D.DirectionName
AND S.[Exam Score] >= D.MinScore) >= D.TotalSeats
THEN CAST(1 AS BIT)
ELSE CAST(0 AS BIT)
END
FROM dbo.Directions D
WHERE D.DirectionName IN (SELECT DISTINCT Direction FROM inserted);
END
GO

SELECT * FROM sys.triggers;

```

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Results Messages

	name	object_id	parent_class	parent_class_desc	parent_id	type	type_desc	create_date	modify_date	is_ms_shipped	is_disabled	is_not_for_replication	is_instead_of_trigger
1	trg_UpdateIsEnrollmentClosed	722101613	1	OBJECT_OR_COLUMN	1253579504	TR	SQL_TRIGGER	2024-06-05 18:33:48.387	2024-06-05 18:33:48.387	0	0	0	0

Триггер

SQLQuery3.sql - D...-MFQ3KVM\LG (52))* trigger_lesson_15...P-MFQ3KVM\LG (65))*

-- Вставляем нового студента
INSERT INTO Students (Name, Surname, [Exam Score], Direction)
VALUES ('Иван', 'Иванов', 180, 'История');

SELECT * FROM Directions;

89 %

Results Messages

	DirectionCode	DirectionName	MinScore	IsEnrollmentClosed	TotalSeats
1	1	История	160	0	2
2	2	Право	180	0	2
3	3	Физика	200	1	1

Таблица до добавления данных

SQLQuery3.sql - D...-MFQ3KVM\LG (52))* trigger_lesson_15...P-MFQ3KVM\LG (65)

```
-- Вставляем нового студента
INSERT INTO Students (Name, Surname, [Exam Score], Direction)
VALUES ('Иван', 'Иванов', 180, 'История');
SELECT * FROM Directions;
```

89 %

Results Messages

	DirectionCode	DirectionName	MinScore	IsEnrollmentClosed	TotalSeats
1	1	История	160	1	2
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Таблица после добавления данных