

SQL Code for Business Rule

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1  -- > "No student from Illinois may register for a 300-level Biology course in summer
2   quarters after 2026 if the class is in Mary Gates Hall"
3
4   -- Use USER_DEFINED FUNCTION --> UDF
5
6   -- 'CRAB DIES'
7
8  CREATE FUNCTION fn_no_Illinois_Biology()
9    RETURNS INTEGER
10   AS
11   BEGIN
12
13   DECLARE @RET INTEGER = 0
14   IF
15   EXISTS (SELECT *
16     FROM tblSTUDENT S
17       JOIN tblCLASS_LIST CL ON S.StudentID = CL.StudentID
18       JOIN tblCLASS CS ON CL.ClassID = CS.ClassID
19       JOIN tblQUARTER Q ON CS.QuarterID = Q.QuarterID
20       JOIN tblCOURSE CR ON CS.CourseID = CR.CourseID
21       JOIN tblDEPARTMENT D ON CR.DeptID = D.DeptID
22       JOIN tblCLASSROOM CM ON CS.ClassroomID = CM.ClassroomID
23       JOIN tblBUILDING B ON CM.BuildingID = B.BuildingID
24         WHERE S.StudentPermState = 'Illinois, IL'
25         AND B.BuildingName = 'Mary Gates Hall'
26         AND Q.QuarterName = 'Summer'
27         AND D.DeptName = 'Biology'
28         AND CR.CourseName LIKE '3%'
29         AND CS.Year > '2026')
30   BEGIN
31     SET @RET = 1
32   END
33
34   RETURN @RET
35 END
36 GO
37
38 ALTER TABLE tblCLASS_LIST WITH NOCHECK
39   ADD CONSTRAINT CK_No_300_Biology_Summer
40   CHECK (dbo.fn_no_Illinois_Biology() = 0)
```