

SQL Code for Business Rule

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1
2  -- > "No student from Illinois may register for a 300-level Biology course in summer
3  -- quarters after 2026 if the class is in Mary Gates Hall"
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
25         WHERE S.StudentPermState = 'Illinois, IL'
26         AND B.BuildingName = 'Mary Gates Hall'
27         AND Q.QuarterName = 'Summer'
28         AND D.DeptName = 'Biology'
29         AND CR.CourseName LIKE '3%'
30         AND CS.Year > '2026')
31 BEGIN
32     SET @RET = 1
33 END
34
35 RETURN @RET
36 END
37 GO
38 ALTER TABLE tblCLASS_LIST WITH NOCHECK
39 ADD CONSTRAINT CK_No_300_Biology_Summer
40 CHECK (dbo.fn_no_Illinois_Biology() = 0)

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