(T35)討論IIFFunction  
CourseGUID: e48417fc-9db5-4e99-822c-706c5ccef6cc  
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(T35)討論IIFFunction  
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0. Summary

1. IIF Function  
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1.

The following clauses are equivalent:

1.1.

IFF Syntax:

--IIF ( boolCondition, trueValue, falseValue )

1.2.

CaseWhen Syntax :

--CASE WHEN @Grades >= 50

--    THEN 'Pass'

--    ELSE 'Fail'

--END;

1.3.

E.g.

--DECLARE @Grades INT = 50;

--DECLARE @Result1 NVARCHAR(10) = IIF(@Grades >= 50, 'Pass', 'Fail');

--DECLARE @Result2 NVARCHAR(10) = CASE WHEN @Grades >= 50 THEN 'Pass'

--                                     ELSE 'Fail'

--                                END;

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2.

The following clauses are equivalent:

2.1.

CHOOSE Syntax:

--CHOOSE( IndexValue , Value01, Value02, ... )

2.2.

--CASE @IndexValue

--    WHEN 1 THEN 'Value01'

--    WHEN 2 THEN 'Value02'

--    ...

--END;

2.3.

DECLARE @Grades INT = 4;

--DECLARE @Result1 NVARCHAR(10) = CHOOSE(@Grades, 'Fail 1', 'Fail 2', 'Fail 3',

--                                       'Pass', 'Credit', 'Distinction',

--                                       'High Distinction');

--DECLARE @Result2 NVARCHAR(10) = CASE @Grades

--                                  WHEN 1 THEN 'Fail 1'

--                                  WHEN 2 THEN 'Fail 2'

--                                  WHEN 3 THEN 'Fail 3'

--                                  WHEN 4 THEN 'Pass'

--                                  WHEN 5 THEN 'Credit'

--                                  WHEN 6 THEN 'Distinction'

--                                  WHEN 7 THEN 'High Distinction'

--                                END;

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1. IIF Function

--================================================================

--T035\_01

--The following clauses are equivalent:

DECLARE @Grades INT = 50;

DECLARE @Result1 NVARCHAR(10) = IIF(@Grades >= 50, 'Pass', 'Fail');

DECLARE @Result2 NVARCHAR(10) = CASE WHEN @Grades >= 50 THEN 'Pass'

                                     ELSE 'Fail'

                                END;

PRINT @Result1;

PRINT @Result2;

GO -- Run the previous command and begins new batch

--Return Pass

A picture containing text

Description automatically generated

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--T035\_02

--Create sample data

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'StudentGrades' ) )

    BEGIN

        TRUNCATE TABLE dbo.StudentGrades;

        DROP TABLE StudentGrades;

    END;

GO -- Run the previous command and begins new batch

CREATE TABLE StudentGrades

    (

      Id INT IDENTITY(1, 1)

             PRIMARY KEY ,

      [Name] NVARCHAR(100) ,

      Grades INT

    );

GO -- Run the previous command and begins new batch

INSERT  INTO StudentGrades

VALUES  ( 'Name01', 50 );

INSERT  INTO StudentGrades

VALUES  ( 'Name02', 51 );

INSERT  INTO StudentGrades

VALUES  ( 'Name03', 49 );

INSERT  INTO StudentGrades

VALUES  ( 'Name04', 30 );

INSERT  INTO StudentGrades

VALUES  ( 'Name05', 75 );

INSERT  INTO StudentGrades

VALUES  ( 'Name06', 85 );

INSERT  INTO StudentGrades

VALUES  ( 'Name07', 20 );

GO -- Run the previous command and begins new batch

SELECT  \*

FROM    StudentGrades;

GO -- Run the previous command and begins new batch

Table

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--==============================================================================

--T035\_03

--The following clauses are equivalent:

--T035\_03\_01

--CASE WHEN(condition) THEN ... ELSE ...

SELECT  [Name] ,

        Grades ,

        CASE WHEN Grades >= 50 THEN 'Pass'

             ELSE 'Fail'

        END AS [Result]

FROM    StudentGrades;

GO -- Run the previous command and begins new batch

--T035\_03\_02

SELECT  [Name] ,

        Grades ,

        IIF(Grades >= 50, 'Pass', 'Fail') AS [Result]

FROM    StudentGrades;

GO -- Run the previous command and begins new batch

Table

Description automatically generated

--================================================================

--T035\_04

--Clean up

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'StudentGrades' ) )

    BEGIN

        TRUNCATE TABLE dbo.StudentGrades;

        DROP TABLE StudentGrades;

    END;

GO -- Run the previous command and begins new batch