

Example 3 - Employee Attendance Tracking

-- This script generates an employee attendance report for a specified month and year.

-- It tracks the number of days present, absent, and on leave for a particular employee.

-- Declare variables

DECLARE @ReportMonth INT;

DECLARE @ReportYear INT;

DECLARE @TotalDays INT;

DECLARE @EmployeeID INT;

DECLARE @PresentDays INT;

DECLARE @AbsentDays INT;

DECLARE @LeaveDays INT;

-- Initialize variables

SET @ReportMonth = 7; -- Set the month for the report

SET @ReportYear = 2023; -- Set the year for the report

SET @EmployeeID = 101; -- Set the Employee ID for the report

-- Calculate total days in the month

SET @TotalDays = DAY(EOMONTH(DATEFROMPARTS(@ReportYear,
@ReportMonth, 1)));

-- Calculate present, absent, and leave days

SELECT @PresentDays = COUNT(*)

FROM EmployeeAttendance

WHERE EmployeeID = @EmployeeID AND MONTH(AttendanceDate) =

@ReportMonth AND YEAR(AttendanceDate) = @ReportYear AND Status =
'Present';

SELECT @AbsentDays = COUNT(*)

FROM EmployeeAttendance

```
WHERE EmployeeID = @EmployeeID AND MONTH(AttendanceDate) =  
@ReportMonth AND YEAR(AttendanceDate) = @ReportYear AND Status =  
'Absent';
```

```
SELECT @LeaveDays = COUNT(*)
```

```
FROM EmployeeAttendance
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```
WHERE EmployeeID = @EmployeeID AND MONTH(AttendanceDate) =  
@ReportMonth AND YEAR(AttendanceDate) = @ReportYear AND Status =  
'Leave';
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-- Print the report
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PRINT 'Employee Attendance Report for Employee ID: ' +  
CAST(@EmployeeID AS VARCHAR);
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```
PRINT 'Report Month: ' + CAST(@ReportMonth AS VARCHAR) + '/' +  
CAST(@ReportYear AS VARCHAR);
```

```
PRINT 'Total Working Days: ' + CAST(@TotalDays AS VARCHAR);
```

```
PRINT 'Days Present: ' + CAST(@PresentDays AS VARCHAR);
```

```
PRINT 'Days Absent: ' + CAST(@AbsentDays AS VARCHAR);  
PRINT 'Days on Leave: ' + CAST(@LeaveDays AS VARCHAR);
```