

#### IIf(KPIValue("satisfaction") > KPIGoal("satisfaction"), 1, -1)

Trend expression:

IIf(KPIValue("satisfaction") >
(KPIValue("satisfaction"),ParallelPeriod([Dim Courses].[Hierarchy].[Year Range], 1, [Dim Courses].[Hierarchy].CurrentMember)), 1, -1)

#### 1. Does a year of studying have an impact on average level satisfaction?

**SELECT** 

[Measures].[AVGsatisfaction] ON COLUMNS,

[Dim Courses].[Year Range].Members ON ROWS

FROM DW

## 2. Is there any correlation between students' satisfaction and type of course that runs it?

**SELECT** 

[Measures].[AVGsatisfaction] ON COLUMNS,

[Dim Courses].[Course ID].Members ON ROWS

FROM DW

#### 3. Compare the results in relation to the family status of students:

**SELECT** 

[Measures].[AVGresult] ON COLUMNS,

[Dim Students].[Family Status].Members ON ROWS

FROM DW

### 4. What are the results of the overall best-students in the current and the previous month?

```
WITH MEMBER [Student].[Full Name] AS
[Student].[Name].CurrentMember.Name + ' ' +
[Student].[Surname].CurrentMember.Name
WITH SET [TopStudents] AS
TOPCOUNT([Student].[Full Name].MEMBERS, 5, [Measures].[Average Exam
Results])
SELECT
 {[Measures].[AVGresults]} ON COLUMNS,
 { ([Dim Date].[Date].[2023].[May], [TopStudents]), (([Dim
Date].[Date].[2023].[June],[TopStudents]) } ON ROWS
FROM DW
WITH
SET [TopStudentsMay] AS
 TOPCOUNT(
 [Dim Students].[Student ID].Members,
 5,
 ([Dim Date].[Month].[May], [Measures].[AVGresult])
 )
SET [TopStudentsJune] AS
 TOPCOUNT(
 [Dim Students].[Student ID].Members,
 5,
  ([Dim Date].[Month].[June], [Measures].[AVGresult])
```

```
SELECT

{[Measures].[AVGresult]} ON COLUMNS,

NON EMPTY {

([Dim Date].[Year].[2023], [Dim Date].[Month].[May]),

([Dim Date].[Year].[2023], [Dim Date].[Month].[June])
} ON ROWS

FROM DW
```

### 5. Compare the exam results from each subject from this month to the previous months.

**SELECT** 

```
[Dim Subjects].[Name].Members ON COLUMNS,

{ [Dim Date].[Date].&[2023-03-01T00:00:00], [Dim Date].[Date].&[2023-02-01T00:00:00], [Dim Date].[Date].[Ratio]} ON ROWS

FROM DW

WHERE [Measures].[AVGresult]
```

## 6. Analyze the correlation between attendance and exam results this month to the previous

**SELECT** 

```
{ [Dim Date].[Date].&[2023-03-01T00:00:00], [Dim Date].[Date].&[2023-02-01T00:00:00]} ON COLUMNS, 
{[Measures].[Attendance Rate], [Measures].[AVGresult]} ON ROWS 
FROM DW
```

7. Does final exam grade have an impact on satisfaction?

```
SELECT
{
 ([Measures].[AVGresult],[Dim Courses].[Course ID].&[4]),
 ([Measures].[AVGsatisfaction],[Dim Courses].[Course ID].&[4])
} ON COLUMNS,
{
 FILTER(
 [Dim Students].[Student ID].Members,
 (
  NOT IsEmpty(([Measures].[AVGresult],[Dim Courses].[Course ID].&[4])) AND
  NOT IsEmpty(([Measures].[AVGsatisfaction],[Dim Courses].[Course ID].&[4]))
 )
 )
} ON ROWS
FROM DW
8. Which method gives the best result for given subjects?
WITH SET TopTeachingMethods AS
TOPCOUNT([Dim Teachers].[Teaching Method].Members, 1,
[Measures].[AVGresult])
SELECT
 {[Measures].[AVGresult]} ON COLUMNS,
TopTeachingMethods ON ROWS
FROM DW
```

9. Identify the profiles that have the overall best exam results.

```
WITH SET TopProfiles AS

TOPCOUNT([Dim Classes].[Profile].Members, 1, [Measures].[AVGresult])

SELECT

{[Measures].[AVGresult]} ON COLUMNS,

TopProfiles ON ROWS

FROM DW
```

### 10. Does the length of employment of a teacher have an impact on the exam result over time?

**SELECT** 

{[Measures].[AVGresult]} ON COLUMNS,

[Dim Teachers].[Year Of Employment].Members ON ROWS

FROM DW

# 10. Compare the exam results in 2 semester for each profile in current year

**SELECT** 

[Measures].[AVGresult] ON COLUMNS,

[Dim Classes].[Profile].Members ON ROWS

FROM DW

WHERE ([Dim Date].[Semester].[Summer], [Dim Date].[Year].[2023])