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By: Michel Samir Zaki

Agenda

- Use Alteryx (fill Fact table with data)
- Use Alteryx (Transformation Components)

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Using Alteryx

- Dimensions and Fact tables is already created in SQL Server
- Filling Fact table with data (New Workflow1.yxmd)
- Data comes from excel data source: students_results.xlsx

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Aim of this section

- Fill Fact table and calculate the [Student_Material_Percentage] (percentage of each material for each student)

Ex: Student 1 grades (Arabic => 60, Science => 40, Math => 40)

Full mark grades (Arabic => 80, Science => 60, Math => 50)

We need to calculate percentage for each material

Student 1 (Arabic => 75%, Science => 66.6%, Math => 83%)

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Summarize Component

- Use Summarize component to remove duplication (Distinct)
- Use Group by function on a column to get only unique records

Ex: summarize school column (store only 1 record for each unique school)

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Transpose Component

- Use Transpose component to convert columns to records (rows)

- The result of Transposing columns to rows is creating 2 columns (names and values)

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Transpose Component Example

- 3 columns (Arabic , Science and Math). Each column contains 5 records (students grades)
- After transposing columns (3 columns) to records (rows)
  - We will have 2 columns (name, and value)
  - Each column will have 15 record (5 records * 3 columns)
  - Column name will contain 3 values (Arabic, science, and math)
  - Column value will contain student grades values

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Join Component

- Use Join component to join 2 tables (like Join in SQL statements)
- We will use inner join to join 2 tables (take any column from the 2 tables)
- We need a matching column to join the 2 tables together


Thank You