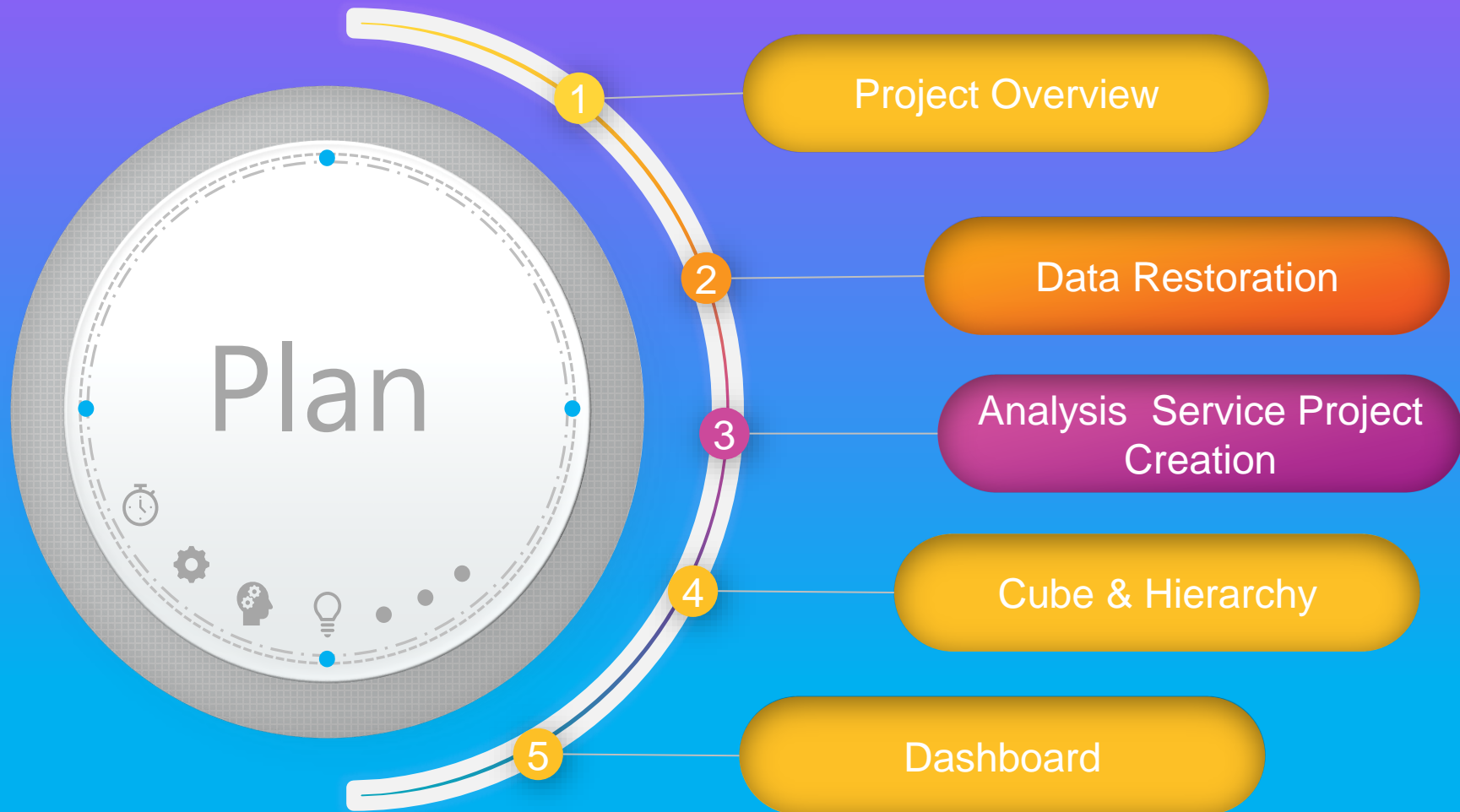


Business Intelligence And Data Visualisation



Madiouni Mohsen



Project
OverView

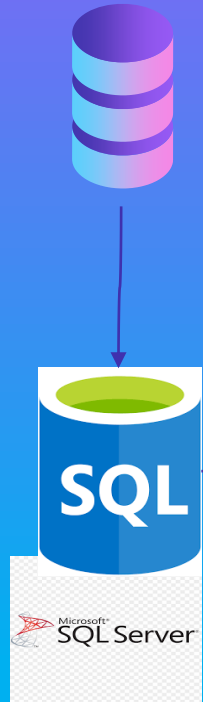
Data
Restoration

Analysis
Service
Project

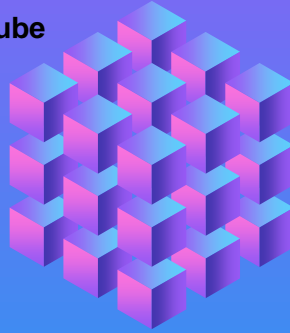
Cube
&
Hierarchy

DashBoard

AdventureWork DWH



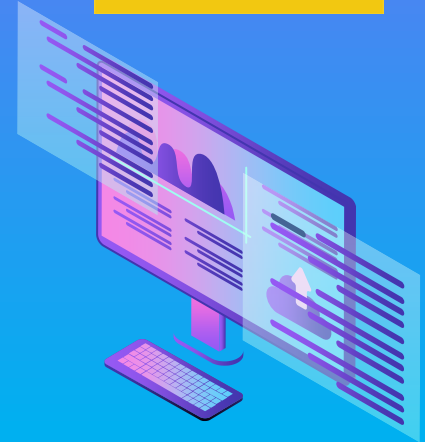
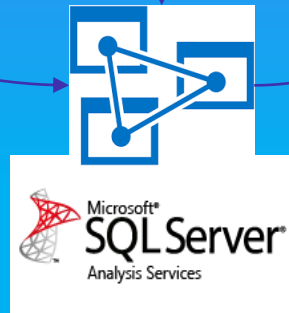
Cube



Power BI



Analysis Services
Multidimensional and
Data Mining Project



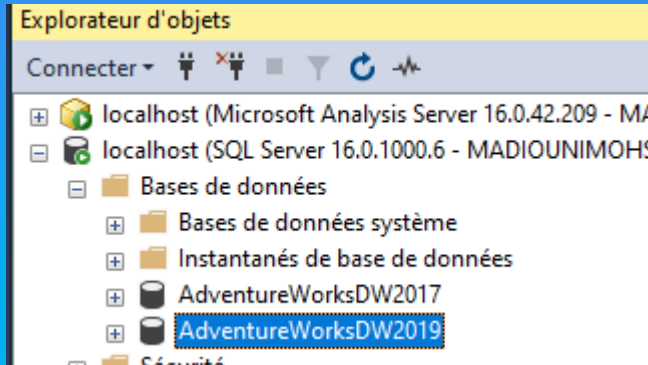
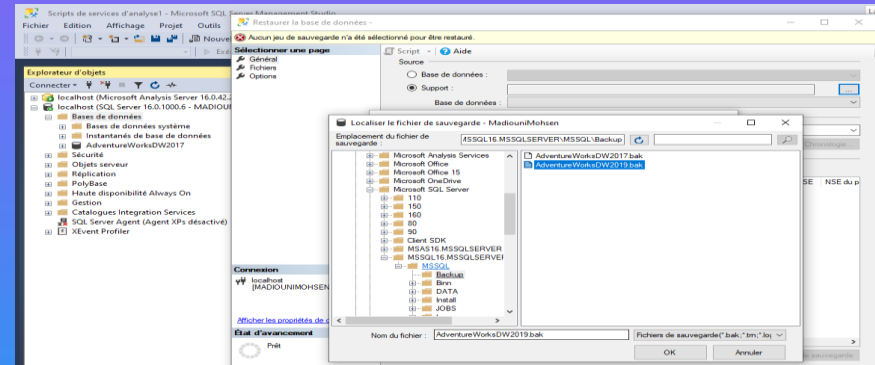
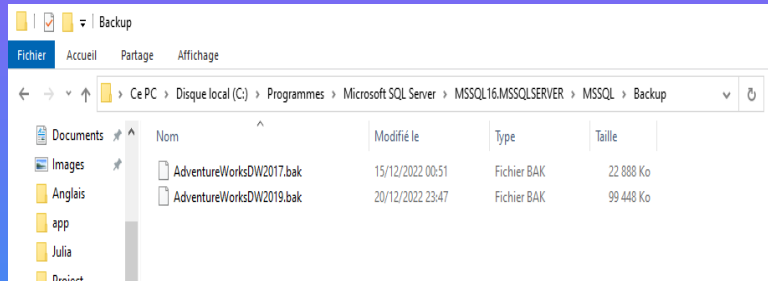
Project OverView

Data Restoration

Analysis Service Project

Cube & Hierarchy

DashBoard



Project
OverView

Data
Restoration

Analysis
Service
Project

Cube
&
Hierarchy

DashBoard

Define Data Source

Configurer votre nouveau projet

Projet multidimensionnel Analysis Services

Nom du projet

Projet

Emplacement

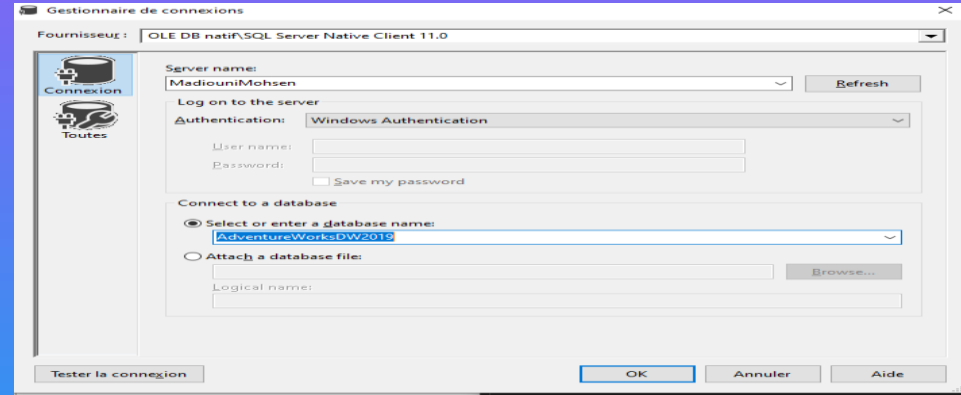
C:\Users\user\source\repos

Nom de la solution ⓘ

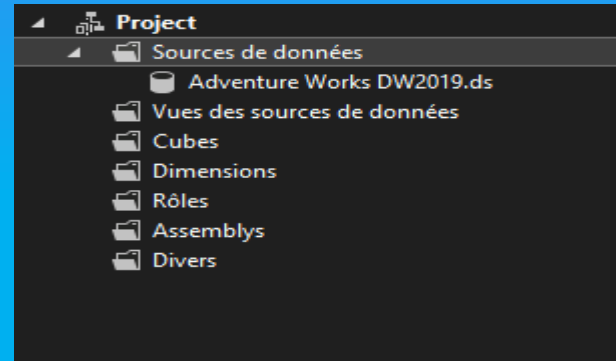
Projet

☐ Placer la solution et le projet dans le même répertoire

Project Creation



Connect to the restored
Data



Project
OverView

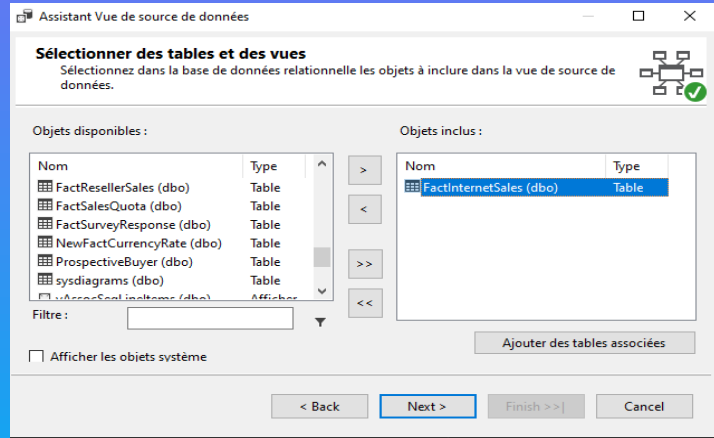
Data
Restoration

Analysis
Service
Project

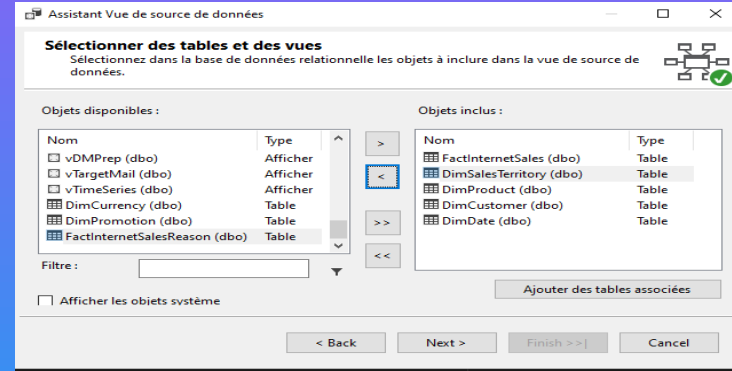
Cube
&
Hierarchy

DashBoard

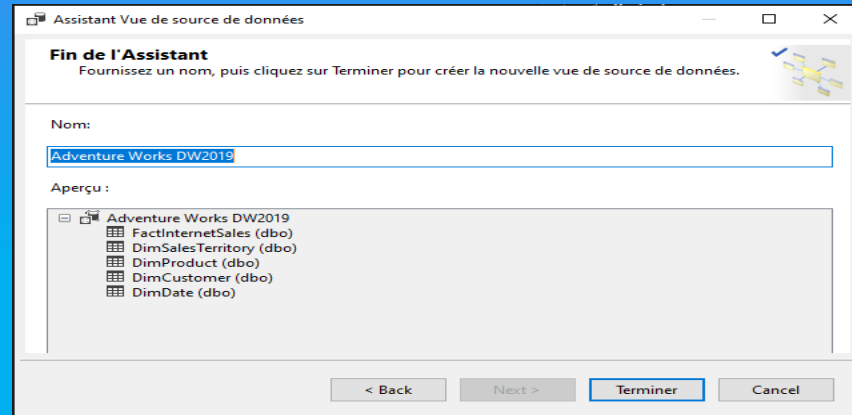
Create Data View (1)



1.Fact Table



2.Dim Tables



Project
OverView

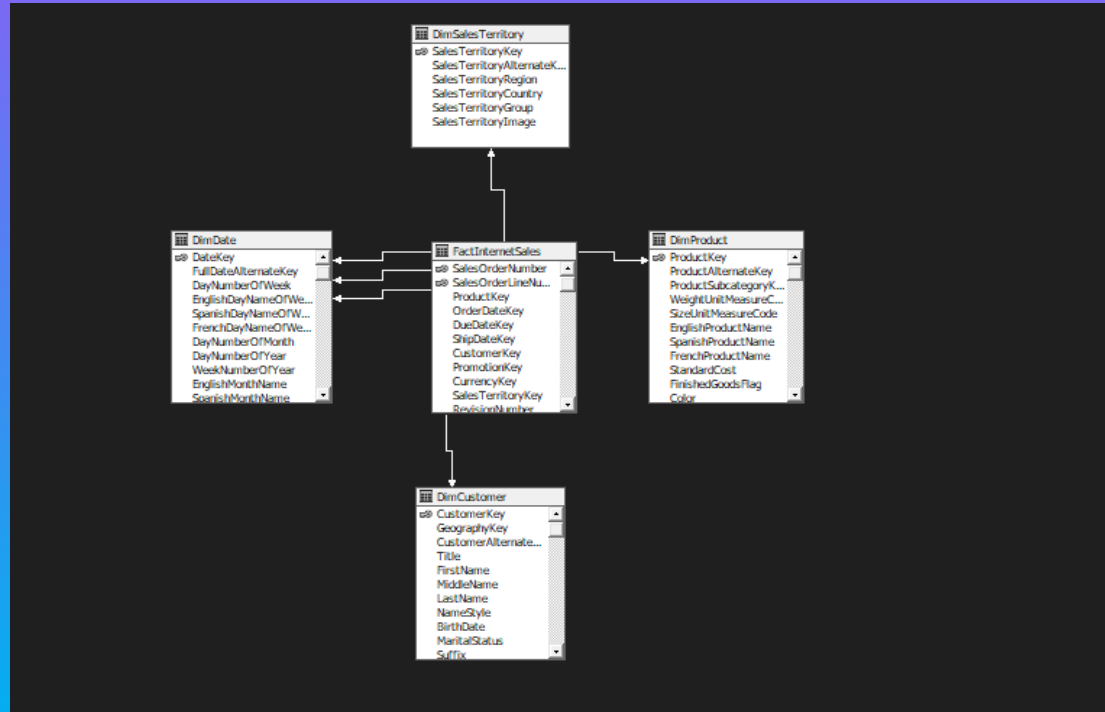
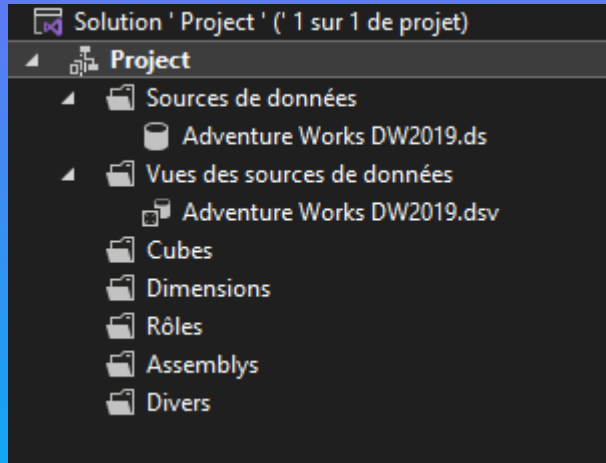
Data
Restoration

Analysis
Service
Project

Cube
&
Hierarchy

DashBoard

Create Data View (2)



Schema

Project
OverView

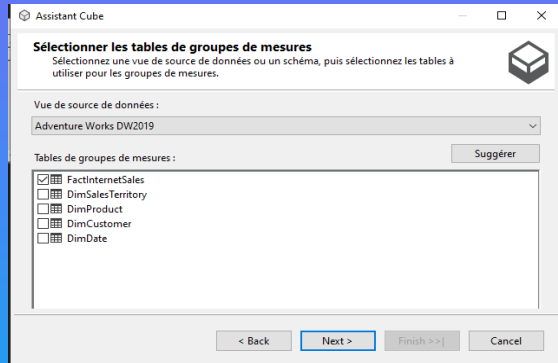
Data
Restoration

Analysis
Service
Project

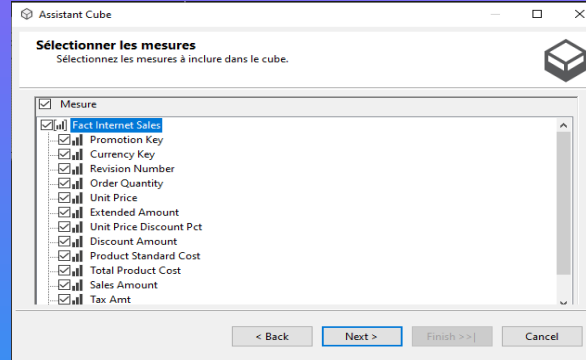
Cube
&
Hierarchy

DashBoard

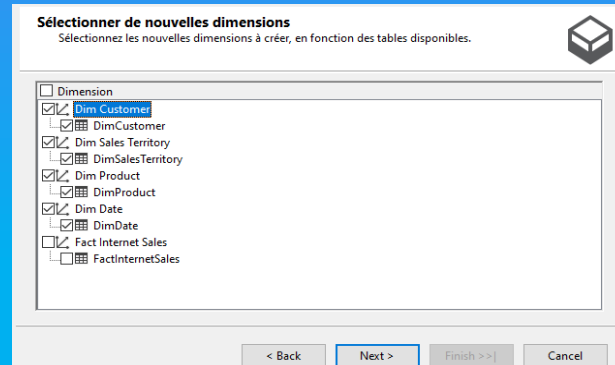
Cube (1)



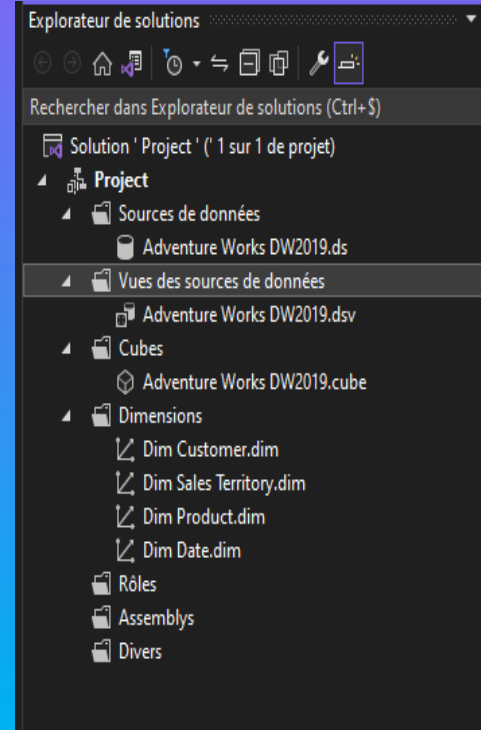
1.Fact Table



1.Fact Table attributes



2.DimTables



Project
OverView

Data
Restoration

Analysis
Service
Project

Cube
&
Hierarchy

DashBoard

Cube (2)

Attributs	Hierarchies	Vue de source de données
<ul style="list-style-type: none">Dim Product<ul style="list-style-type: none">English Product NameProduct KeyProduct Subcategory KeyStandard Cost	<p>Pour créer une hiérarchie, faites glisser un attribut à cet emplacement.</p>	<ul style="list-style-type: none">Dim Product<ul style="list-style-type: none">ProductKeyProductAlternateKeyProductSubcategoryKeyWeightUnitMeasureCodeSizeUnitMeasureCodeEnglishProductNameSpanishProductNameFrenchProductNameStandardCostFinishedGoodsFlagColorSafetyStockLevelReorderPointListPriceSizeSizeRangeWeightDaysToManufactureProductLineDealerPriceClassStyleModelNameLargePhotoEnglishDescriptionFrenchDescriptionChineseDescriptionArabicDescription

<ul style="list-style-type: none">Dim Product<ul style="list-style-type: none">ProductKeyProductAlternateKeyProductSubcategoryKeyWeightUnitMeasureCodeSizeUnitMeasureCodeEnglishProductNameSpanishProductNameFrenchProductNameStandardCostFinishedGoodsFlagColorSafetyStockLevelReorderPointListPriceSizeSizeRangeWeightDaysToManufactureProductLineDealerPriceClassStyleModelNameLargePhotoEnglishDescriptionFrenchDescriptionChineseDescriptionArabicDescription	<ul style="list-style-type: none">Dim Product Subcategory<ul style="list-style-type: none">ProductSubcategoryKeyProductSubcategoryAlternateKeyEnglishProductSubcategoryNameSpanishProductSubcategoryNameFrenchProductSubcategoryNameProductCategoryKey
---	---

Attributs	Hierarchies	Vue de source de données
<ul style="list-style-type: none">Dim Product<ul style="list-style-type: none">English Product NameEnglish Product Subcategory NameProduct KeyStandard Cost	<p>Pour créer une hiérarchie, faites glisser un attribut à cet emplacement.</p>	<ul style="list-style-type: none">Dim Product<ul style="list-style-type: none">SpanishProductNameFrenchProductNameStandardCostFinishedGoodsFlagColorSafetyStockLevelReorderPointListPriceSizeSizeRangeWeightDaysToManufactureProductLineDealerPriceClassStyleModelNameLargePhotoEnglishDescriptionFrenchDescriptionChineseDescriptionArabicDescriptionHebrewDescriptionThaiDescriptionGermanDescriptionJapaneseDescriptionTurkishDescriptionSalesDateEndDateStatusDim Product Subcategory<ul style="list-style-type: none">ProductSubcategoryKeyProductSubcategoryAlternateKeyEnglishProductSubcategoryNameSpanishProductSubcategoryNameFrenchProductSubcategoryNameProductCategoryKey

Dim Table Product attributes

Project
OverView

Data
Restoration

Analysis
Service
Project

Cube
&
Hierarchy

DashBoard

Cube (3)

Attributs	Hierarchies	Liste de source de données
<ul style="list-style-type: none">Dim Customer<ul style="list-style-type: none">Customer KeyMarital StatusYearly Income	<p>Pour créer une hiérarchie, faites glisser un attribut à cet emplacement.</p>	<ul style="list-style-type: none">Dim Customer<ul style="list-style-type: none">CustomerKeyGeographyKeyCustomerAlternateKeyTitleFirstNameMiddleNameLastNameNameStyleBirthDateMaritalStatusSuffixGenderEmailAddressYearlyIncomeTotalChildrenNumberChildrenAtHomeEnglishEducationSpanishEducationFrenchEducationEnglishOccupationSpanishOccupationFrenchOccupationHouseOwnerFlagNumberCarsOwnedAddressLine1AddressLine2PhoneDateFirstPurchaseCommuteDistance

Dim Table customer attributes

Attributs	Hierarchies	Liste de source de données
<ul style="list-style-type: none">Dim Sales Territory<ul style="list-style-type: none">Sales Territory CountrySales Territory KeySales Territory Region	<p>Pour créer une hiérarchie, faites glisser un attribut à cet emplacement.</p>	<ul style="list-style-type: none">Dim Sales Territory<ul style="list-style-type: none">SalesTerritoryKeySalesTerritoryAlternateKeySalesTerritoryRegionSalesTerritoryCountrySalesTerritoryGroupSalesTerritoryImage

Dim Table Territory attributes

Attributs	Hierarchies	Liste de source de données
<ul style="list-style-type: none">Dim Date<ul style="list-style-type: none">Calendar YearDateKeyEnglish Month Name	<p>Pour créer une hiérarchie, faites glisser un attribut à cet emplacement.</p>	<ul style="list-style-type: none">Dim Date<ul style="list-style-type: none">DateKeyFullDateAlternateKeyDayNumberOfWeekEnglishDayNameOfWeekSpanishDayNameOfWeekFrenchDayNameOfWeekDayNumberOfMonthDayNumberOfYearWeekNumberOfYearEnglishMonthNameSpanishMonthNameFrenchMonthNameMonthNumberOfYearCalendarQuarterCalendarYearCalendarSemester FiscalQuarter

Dim Table Dates attributes

Project
OverView

Data
Restoration

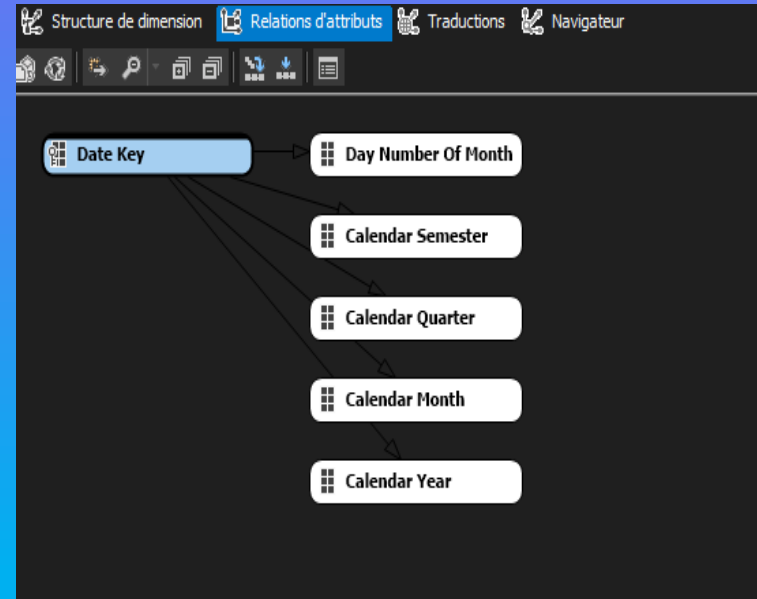
Analysis
Service
Project

Cube
&
Hierarchy

DashBoard

Date Hierarchy (1)

The screenshot displays a software interface with three main panels. The left panel, titled 'Attributs', lists various date-related attributes: Dim Date, Calendar Month, Calendar Quarter, Calendar Semester, Calendar Year, Date Key, and Day Number Of Month. The middle panel, titled 'Hiérarchies', shows a tree structure for 'Date Hierarchy'. It includes a warning icon and a text box stating 'Pour créer une hiérarchie, faites glisser un attribut à cet emplacement.' The tree structure is as follows: 'Date Hierarchy' (root) contains 'Calendar Year', 'Calendar Quarter', 'Calendar Semester', 'Calendar Month', 'Day Number Of Month', and 'Date Key'. The right panel, titled 'Vue de source de données', shows a list of attributes under the 'DimDate' dimension, including FullDateAlternateKey, DayNumberOfWeek, EnglishDayNameOfWeek, SpanishDayNameOfWeek, FrenchDayNameOfWeek, DayNumberOfMonth, DayNumberOfYear, WeekNumberOfYear, EnglishMonthName, SpanishMonthName, FrenchMonthName, MonthNumberOfYear, CalendarQuarter, CalendarYear, CalendarSemester, FiscalQuarter, FiscalYear, and FiscalSemester.



Project
OverView

Data
Restoration

Analysis
Service
Project

Cube
&
Hierarchy

DashBoard

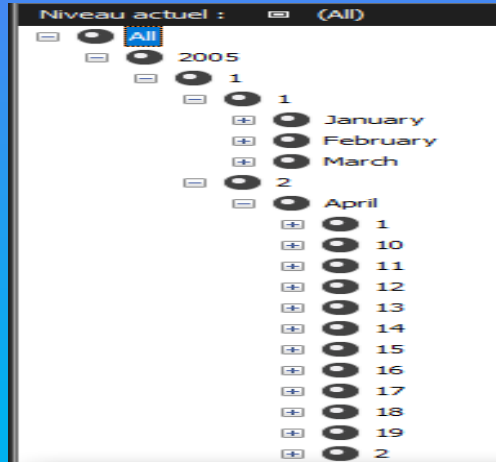
Date Hierarchy (2)

Hiérarchies

Hiérarchie

- Calendar Year
- Calendar Semester
- Calendar Year
- Calendar Quarter
- Calendar Semester
- Calendar Month
- Calendar Quarter
- Day Number Of Month
- Calendar Month
- Date Key
- Day Number Of Month
- <nouveau niveau>

Date Key → Day Number Of Month → Calendar Month → Calendar Quarter → Calendar Semester → Calendar Year



Project
OverView

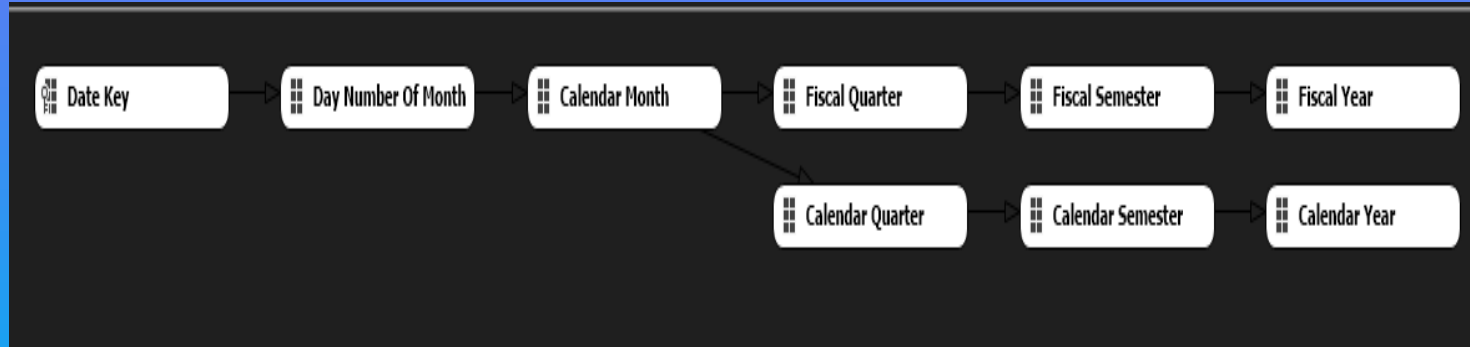
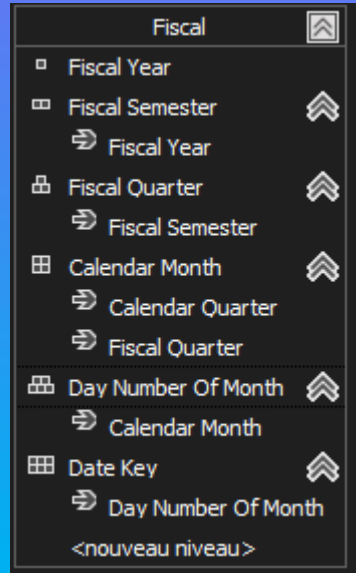
Data
Restoration

Analysis
Service
Project

Cube
&
Hierarchy

DashBoard

Fiscal Date Hierarchy



Project
OverView

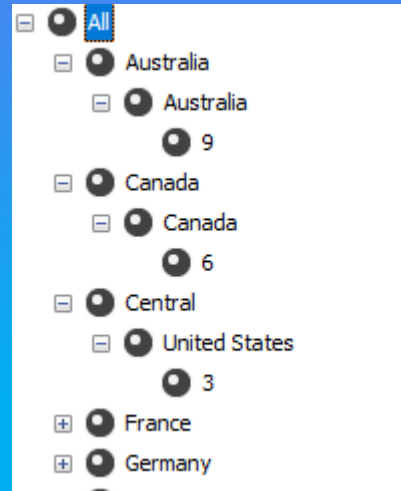
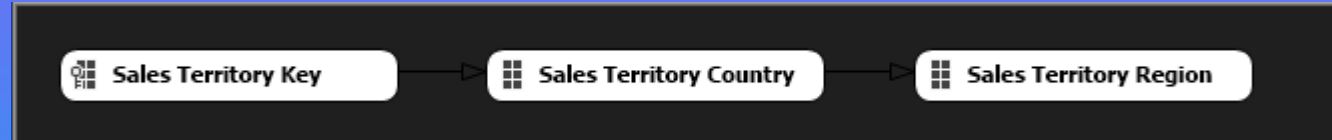
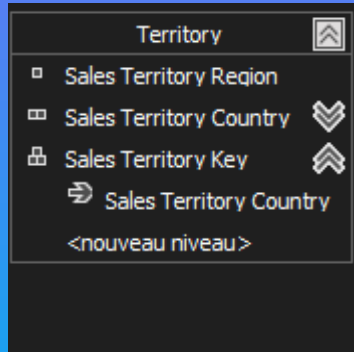
Data
Restoration

Analysis
Service
Project

Cube
&
Hierarchy

DashBoard

Territory Hierarchy



Project
OverView

Data
Restoration

Analysis
Service
Project

Cube
&
Hierarchy

DashBoard

KPIs

1

CA= Sales -Product cost

2

Taxes

3

Internet Sales

KPIs

Project
OverView

Data
Restoration

Analysis
Service
Project

Cube
&
Hierarchy

DashBoard

Adventure Work Analysis

1

2

3

4

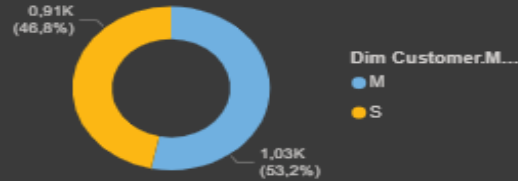
2011

2012

2013

2014

Product subcategories per Customer Status



Sales Amount Sum per Product sub category

Nombre de Di... 0,57K 1,37K



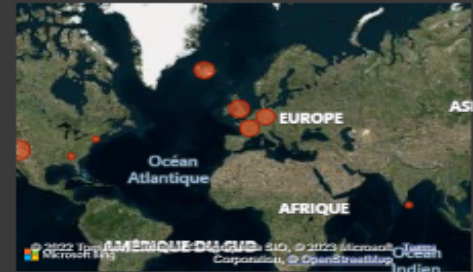
Regions

Sélectionner tout

Australia

Canada

Sales amount per region

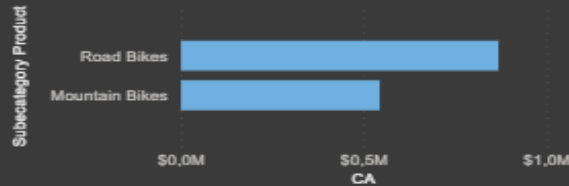


\$1,41M
CA

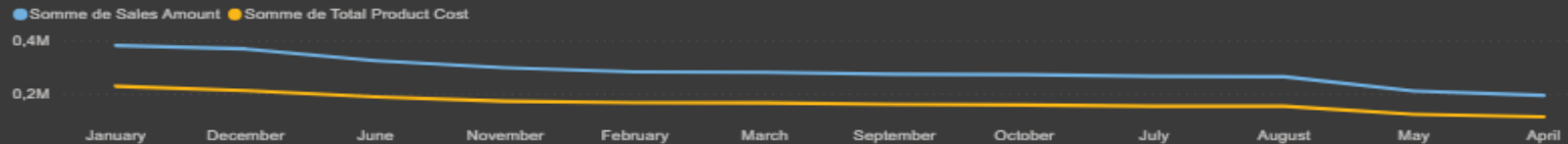
\$273,48K
TAXES

1936
Internet Sales

CA per Subcategory Product



Sales amount and Product cost per month



THANK **Y**OU!