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POWER BI Training

Assignment-1

1) Create new queries to connect to the **(AdventureWorks\_Product\_Categories)**

and **(AdventureWorks\_Product\_Subcategories)** files from the course resources:

• Name your

queries (AW\_Product\_Category\_Lookup) and (AW\_Product\_Subcategory\_Lookup)

Table

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• Confirm that headers have been promoted and that detected data types are

Correct

Graphical user interface, application, table

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• Disable the report refresh option for both connections

Graphical user interface, table

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**2)** Make the following modifications to the **AW\_Product\_Lookup** query:

• Add a calculated column that extracts all characters before the dash ("-") in

the **ProductSKU** column, named "**SKUType**"

Graphical user interface

Description automatically generated with medium confidence

• Update the **SKUType** calculation above to return all characters before second dash,

instead of the first

Graphical user interface, table

Description automatically generated with medium confidence

• Replace zeros (0) in the **ProductStyle** column with "NA"

Table

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• Update the **DiscountPrice** calculation to 15%, by multiplying the **ProductPrice** values

by 0.85 (instead of 0.9)

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**3)** Using the Statistics tools in the Query Editor, confirm the following values :

• Average product cost (**$413.66**)

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• Number of distinct product colors (**10**)

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• Number of distinct customer names (**18,110**)

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• Maximum annual customer income (**$170,000**)

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• Count of order numbers (**56,046**)

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• Count of distinct order numbers (**25,164**)

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**4)** Make the following modifications to the **AW\_Customer\_Lookup** query:

• Add a new calculated column for the year of birth (named "**BirthYear**"), based

on **BirthDate**

Table

Description automatically generated with medium confidence

• Add a conditional column to categorize customer income (named

"**IncomeLevel**"), based on the following criteria *:*

• If **AnnualIncome** >= $150,000, then **IncomeLevel** = "*Very High*"

• If **AnnualIncome** >= $100,000, then **IncomeLevel** = "*High*"

• If **AnnualIncome** >= $50,000, then **IncomeLevel** = "*Average*"

• Otherwise **IncomeLevel** = "*Low*"

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Table

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**5)** Apply all changes, and confirm that new tables and fields are accessible

within both the **Data** and **Relationships** views (recommend saving a backup copy of

the report (i.e. *"AdventureWorks\_Report\_Backup"*))

Diagram

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Table

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