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Power BI Training

Assignment-2

Using your Adventure Works report file, complete the following:

• **1)** Navigate to the **RELATIONSHIPS** view, and perform the following

actions

• Right-click to delete

each relationship between **AW\_Sales**, **AW\_Customer\_Lookup** and **AW\_Cal**

**endar\_Lookup** (*including both date fields*)

Graphical user interface, application

Description automatically generated

• Use the **Manage Relationships** tool to delete *all* remaining relationships

between all tables

Graphical user interface, text, application, email

Description automatically generated

**2)** Recreate all table relationships (*using any method you prefer*), and

confirm the following :

• Cardinality is **1-to-Many** for all relationships

• Filters are all **One-Way** (*no two-way filters*)

• Filter direction correctly flows "**downstream**" to data tables

• Data tables are **not connected** directly to one another

• Both data tables are connected to **all valid lookup tables**

• Product-related tables follow a **snowflake schema**

Graphical user interface, application

Description automatically generated

**3)** Return to the **REPORT** view, and complete the following:

• Edit (*or insert*) the matrix visual to show **ReturnQuantity** (*values*)

by **CategoryName** (*rows*) from the **AW\_Product\_Category\_Lookup** table

• *Which category saw the highest volume of returns? How many?*

Graphical user interface, application, Word

Description automatically generated

• Replace **CategoryName** with **Year** from the **AW\_Calendar\_Lookup** table

• *How many returns do you see in 2015 vs. 2016?*

Graphical user interface, application

Description automatically generated

• Replace **Year** with **FullName** from the **AW\_Customer\_Lookup** table

• *What do you see, and why?*

Graphical user interface, application, table

Description automatically generated

• Update the matrix to show

both **OrderQuantity** and **ReturnQuantity** (*values*) by **ProductKey** (*rows*) fro

m the **AW\_Product\_Lookup** table

• *What was the total OrderQuantity for Product #338?*

Graphical user interface, application, table

Description automatically generated

**4)** Unhide the **ProductKey** field from the **AW\_Returns** tables (*using either*

*the* ***DATA*** *or* ***RELATIONSHIPS*** *view*):

• In the matrix,

replace **ProductKey** from **AW\_Product\_Lookup** with **ProductKey** from

the **AW\_Returns** table

• *Why do we the same repeating values for OrderQuantity?*

Graphical user interface, application, table

Description automatically generated

• Edit the relationship between **AW\_Returns** and **AW\_Product\_Lookup** to

change the cross filter direction from *Single* to *Both*

Graphical user interface, diagram

Description automatically generated

• *Why does the visual now show OrderQuantity values by product, even though we are*

*using* ***ProductKey*** *from* ***AW\_Returns****?*

*Because now it shows OrderQuantity for the products that have been returned as per AW\_Returns*

• *How many orders do we see now for Product #338? What's going on here?*

*Zero. Because now we are using productkey from returns and there are no returns for 338*

**5)** Complete the following:

• Change the cross filter direction

between **AW\_Returns** and **AW\_Product\_Lookup** back to *single* (*One-*

*Way*)

Graphical user interface, diagram

Description automatically generated

• Hide the **ProductKey** field in the **AW\_Returns** table from report view

(*and any other foreign keys, if necessary*)

Graphical user interface, diagram, application

Description automatically generated

• Update the matrix to show **ProductKey** from

the **AW\_Product\_Lookup**, rather than **AW\_Returns**

Graphical user interface, application, Word

Description automatically generated

• **Recommendation:** Save a separate backup copy of the .pbix file (*i.e.*

*"AdventureWorks\_Report\_Backup"*)