# Steps Taken to Build the Power BI Dashboard

## 1. Data Preparation:

* Imported the following Excel files:
* - Customers and Products Details.xlsx
* - Sales and Forecast Data.xlsx
* Verified the integrity of the data and checked for missing or incorrect values.

## 2. Data Modeling:

* Built a proper data model by creating relationships:
* - Connected FactSales with DimCustomers through CustomerKey.
* - Connected FactSales with DimProducts through ProductKey.
* - Connected FactSales with DateTable through OrderDate.
* - Connected Forecast with DateTable through Year.
* - Connected Forecast with DimBrands through Brand.
* Created a DateTable manually and linked it with both the FactSales and Forecast tables.
* Made sure the model respects the granularity differences between Sales and Forecast tables.

## 3. DAX Measures Created:

* Calculated total sales using a DAX formula:
* Total Sales = SUMX(FactSales, FactSales[Quantity] \* FactSales[Net Price])
* Created measures to calculate:
* - Sales in 2008
* - Sales in 2009
* - Forecast vs Actual for 2009
* - Comparison between 2008 and 2009 sales

## 4. Dashboard Visualization:

* Built a one-page dashboard including the following visuals:
* - Total Sales Card
* - KPI cards for 2009 Actual vs Forecast and 2009 vs 2008 Sales
* - Sales Quantity by Country bar chart
* - Top 10 Products bar chart
* - Top 10 Customers by Purchase Amount table
* - Total Sales by Year and Quarter line chart
* - Comparison of Actual vs Forecast for 2009 bar chart
* - Comparison of 2009 Sales vs 2008 Sales bar chart

## 5. Filtering and Interaction:

* Added slicers for:
* - Country
* - State
* Enabled drill-through functionality where needed.