جامعة الحسين التقنية
Al Hussein Technical University

Business Intelligence – Summer/24

Lab 11 – Merge Queries

Objective:

The purpose of this lab is to practice data merging and transformation techniques in Power BI. You will work with two datasets: (Sales Data and Customer Data) to perform various merging operations. Each task is designed to help you understand different aspects of merging queries and working with combined datasets.

Tasks:

1. **Merge Sales Data with Customer Data.**
   Perform an inner join on CustomerID to combine Sales Data and Customer Data.

2. **Left Join with Missing Customers.**
   Perform a left join on Sales Data with Customer Data to see which customers in Sales Data have no matching entries in Customer Data.

3. **Right Join to Include All Customers.**
   Perform a right join to include all customers, even those who didn't make any purchases.

4. **Full Outer Join.**
   Combine Sales Data and Customer Data with a full outer join to include all records from both tables.

5. **Self-Join on Sales Data to Find Repeat Purchases.**
   -Perform a self-join on Sales Data by CustomerID to identify customers who made multiple purchases.
   -Filter the results to show only those customers with more than one purchase record.

6. **Anti-Join to Find Customers with No Sales.**
   Perform an anti-join by merging Customer Data with Sales Data to find customers who have not made any purchases.