**Bike Share Data – SQL Query Documentation**

This document outlines the SQL queries used to combine bike share data, join cost information, and calculate revenue and profit for Power BI analysis.

**1. Load the Datasets**

SELECT \* FROM bike\_share\_yr\_0;

SELECT \* FROM bike\_share\_yr\_1;

SELECT \* FROM cost\_table;

**2. Combine Year-Wise Bike Share Data**

SELECT \* FROM bike\_share\_yr\_0

UNION ALL

SELECT \* FROM bike\_share\_yr\_1;

**4. Use CTE for a Unified Bike Dataset**

WITH cte AS (

SELECT \* FROM bike\_share\_yr\_0

UNION ALL

SELECT \* FROM bike\_share\_yr\_1

)

SELECT \* FROM cte;

**5. Join with Cost Table**

WITH cte AS (

SELECT \* FROM bike\_share\_yr\_0

UNION ALL

SELECT \* FROM bike\_share\_yr\_1

)

SELECT \*

FROM cte a

LEFT JOIN cost\_table b

ON a.yr = b.yr;

**6. Select Specific Columns for Reporting**

WITH cte AS (

SELECT \* FROM bike\_share\_yr\_0

UNION ALL

SELECT \* FROM bike\_share\_yr\_1

)

SELECT

dteday,

season,

a.yr,

weekday,

hr,

rider\_type,

riders,

price,

COGS

FROM cte a

LEFT JOIN cost\_table b

ON a.yr = b.yr;

**7. Add Revenue and Profit Calculations**

WITH cte AS (

SELECT \* FROM bike\_share\_yr\_0

UNION ALL

SELECT \* FROM bike\_share\_yr\_1

)

SELECT

dteday,

season,

a.yr,

weekday,

hr,

rider\_type,

riders,

price,

COGS,

riders \* price AS revenue,

riders \* price - COGS \* riders AS profit

FROM cte a

LEFT JOIN cost\_table b

ON a.yr = b.yr;