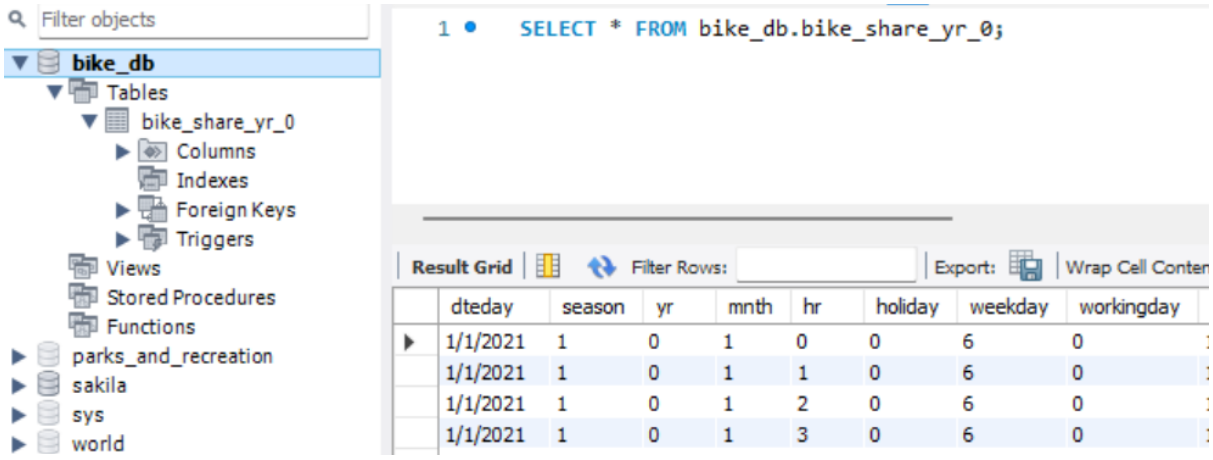
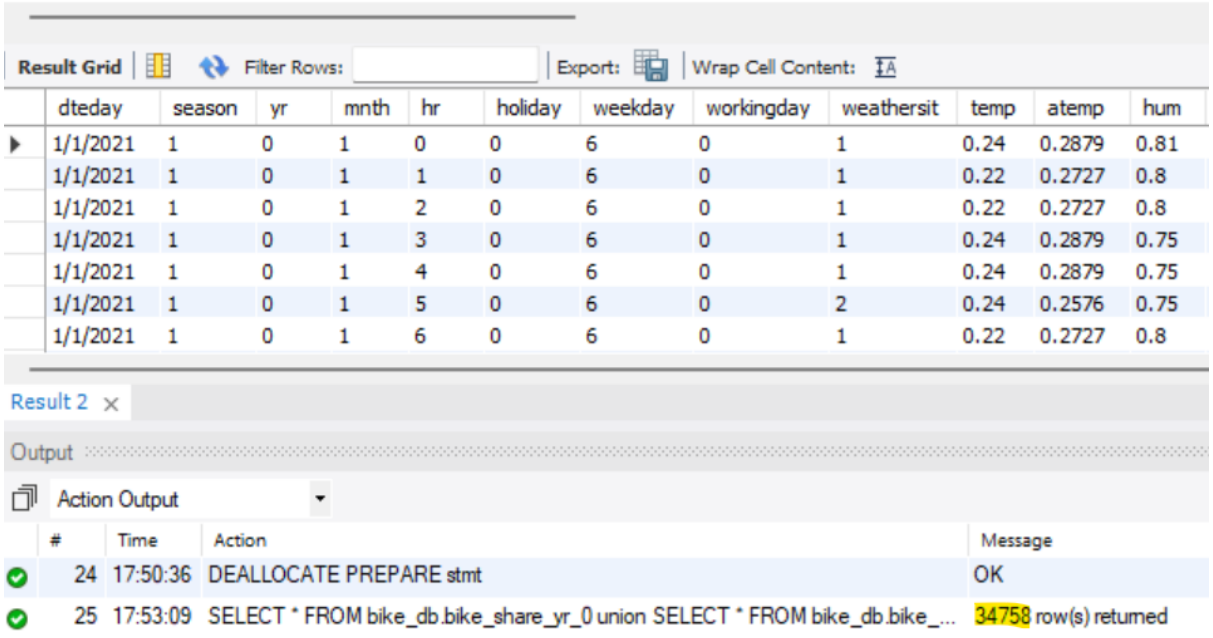
1) Create database



2) Files **bike_share_yr_0 and** file **bike_share_yr_1** needs to be joined

```
7 •  SELECT * FROM bike_db.bike_share_yr_0
8    union
9    SELECT * FROM bike_db.bike_share_yr_1
```



3) The cost_table contains yr, cost, and cost of goods data. The yr column serves as the common key, allowing us to perform a left join between the tables.

```
1  with cte as
2  (
3  SELECT * FROM bike_share_yr_0
4  union
5  SELECT * FROM bike_share_yr_1
6  )
7
8  SELECT * from cte
9  left join cost_table
10 on cte.yr = cost_table.yr
```

esult Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

r	holiday	weekday	workingday	weathersit	temp	atemp	hum	windspeed	rider_type	riders	yr	price	COGS
	0	6	0	1	0.24	0.2879	0.75	0	casual	3	0	3.99	1.24
	0	6	0	1	0.24	0.2879	0.75	0	casual	0	0	3.99	1.24
	0	6	0	2	0.24	0.2576	0.75	0	casual	0	0	3.99	1.24
	0	6	0	1	0.22	0.2727	0.8	0	casual	2	0	3.99	1.24

4) Columns we want are *dteday, season, cte.yr, weekday, hr, rider_type, riders, price, COGS*

```
8  SELECT dteday, season, cte.yr, weekday, hr, rider_type, riders, price, COGS from cte
9  left join cost_table
10 on cte.yr = cost_table.yr
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

dteday	season	yr	weekday	hr	rider_type	riders	price	COGS
1/1/2021	1	0	6	0	casual	3	3.99	1.24
1/1/2021	1	0	6	1	casual	8	3.99	1.24
1/1/2021	1	0	6	2	casual	5	3.99	1.24
1/1/2021	1	0	6	3	casual	3	3.99	1.24
1/1/2021	1	0	6	4	casual	0	3.99	1.24

5) According to the requirements, we need the Revenue and Profit

```
8   SELECT dteday, season, cte.yr, weekday, hr, rider_type, riders, price, COGS,
9   riders*price as revenue,
10  riders*price - COGS as profit
11  from cte
12  left join cost_table
13  on cte.yr = cost_table.yr;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

dteday	season	yr	weekday	hr	rider_type	riders	price	COGS	revenue	profit
2021-01-01 00:00:00	1	0	6	0	casual	3	3.99	1.24	11.97	10.73
2021-01-01 00:00:00	1	0	6	1	casual	8	3.99	1.24	31.92	30.68000000000
2021-01-01 00:00:00	1	0	6	2	casual	5	3.99	1.24	19.950000000000003	18.71000000000
2021-01-01 00:00:00	1	0	6	3	casual	3	3.99	1.24	11.97	10.73
2021-01-01 00:00:00	1	0	6	4	casual	0	3.99	1.24	0	-1.24
2021-01-01 00:00:00	1	0	6	5	casual	0	3.99	1.24	0	-1.24

6) Now we have all the details ready, Power BI dashboard can be created.