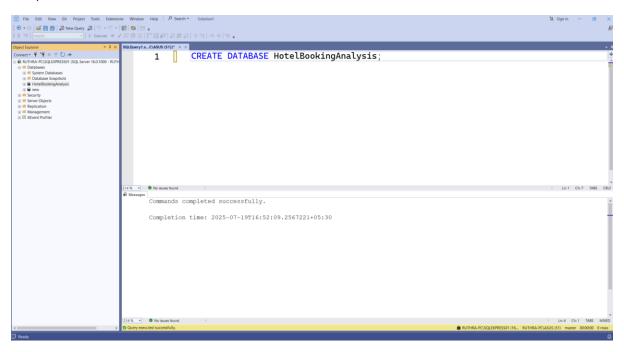
# **OYO Booking Analysis Case Study**

# **Step 1: Database Setup**

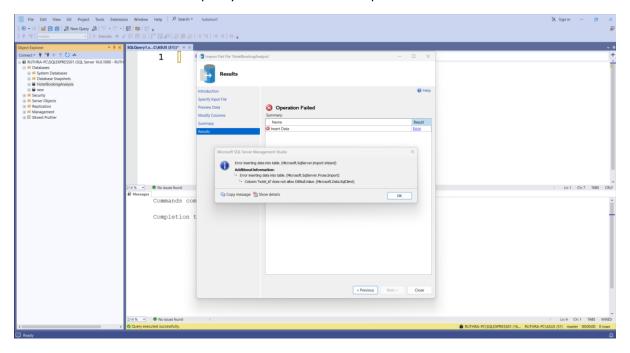
First, we'll create a database.



## **Step 2: Import Data**

Since you have data in Excel, you can:

- 1. Save your Excel files as CSV
- 2. In SSMS, right-click your database  $\rightarrow$  Tasks  $\rightarrow$  Import Data
- 3. Follow the wizard to import your CSV files to the respective tables



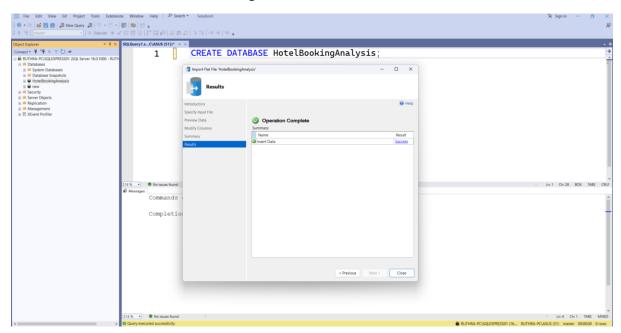
There are some empty fields in the data, so the data was not imported properly. Therefore, we have to clean the data, and I chose to clean the data using pandas.`

### **Data Cleaning:**

#### city\_df

```
print(len(city_df))
9994
print(city_df.dtypes)
hotel_id float64
city object
dtype: object
city_df.isnull().sum()
hotel_id 9637
city 9637
dtype: int64
percent_null = (city_df["hotel_id"].isnull().sum() * 100) / len(city_df)
percent_null
96.42785671402842
clean_city_df = city_df.dropna(subset=["hotel_id"])
clean_city_df.isna().sum()
                                                                                                                           ★ 10 个 ↓ 占 〒 1
hotel_id 0
city 0
dtype: int64
df.to_csv("oyo_city_cleaned.csv", index=False)
```

Data Insertion is successful after cleaning the Data.



Data Base is Populated **Successfully** by importing the data from the csv file.

# **Step 3: Analysis Queries**

1. Average Room Rates by City

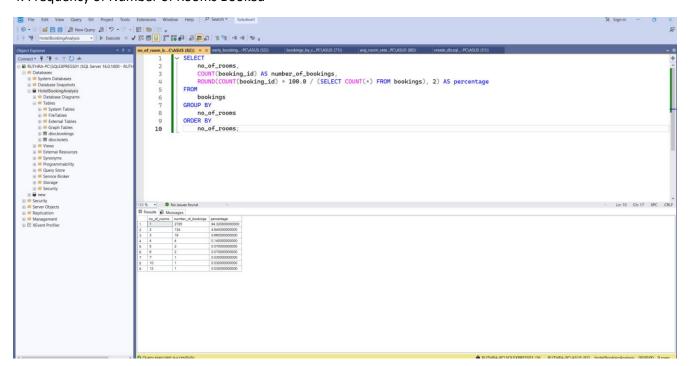
2. Bookings by City (Jan-Feb-Mar)

```
| Fire | Intel | View | Query | Cit | Project | Took | Decession | Window | New | Project | Section | Sect
```

3. Frequency of Early Bookings (Days Prior to Check-in)

```
| Packet Vew Carry of Project both Demonstrative New Packets | No. 1 | Packets | No.
```

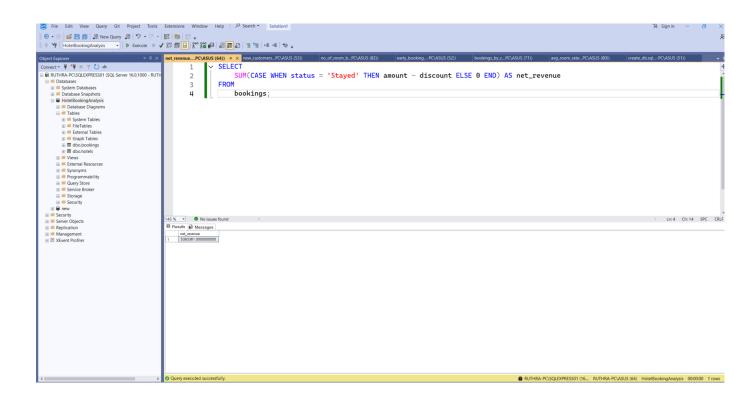
4. Frequency of Number of Rooms Booked



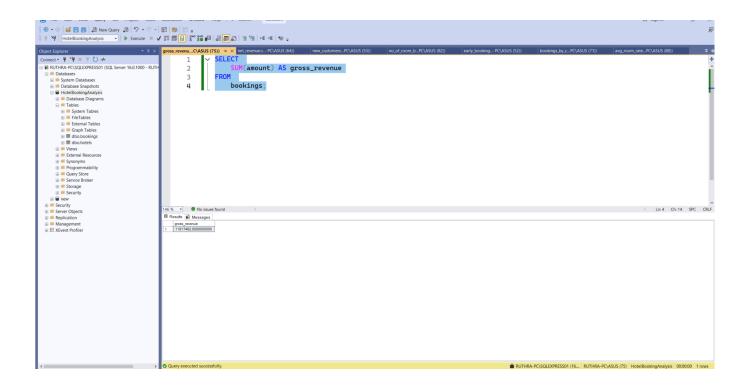
#### 5. New Customers in January

```
| Fig. | Calc | New Coart | Calc | Paper | Calc | P
```

# 6. Net Revenue (After Cancellations)



### 7. Gross Revenue (Total Booked Amount)



### 8. Cancellation Rate by City

