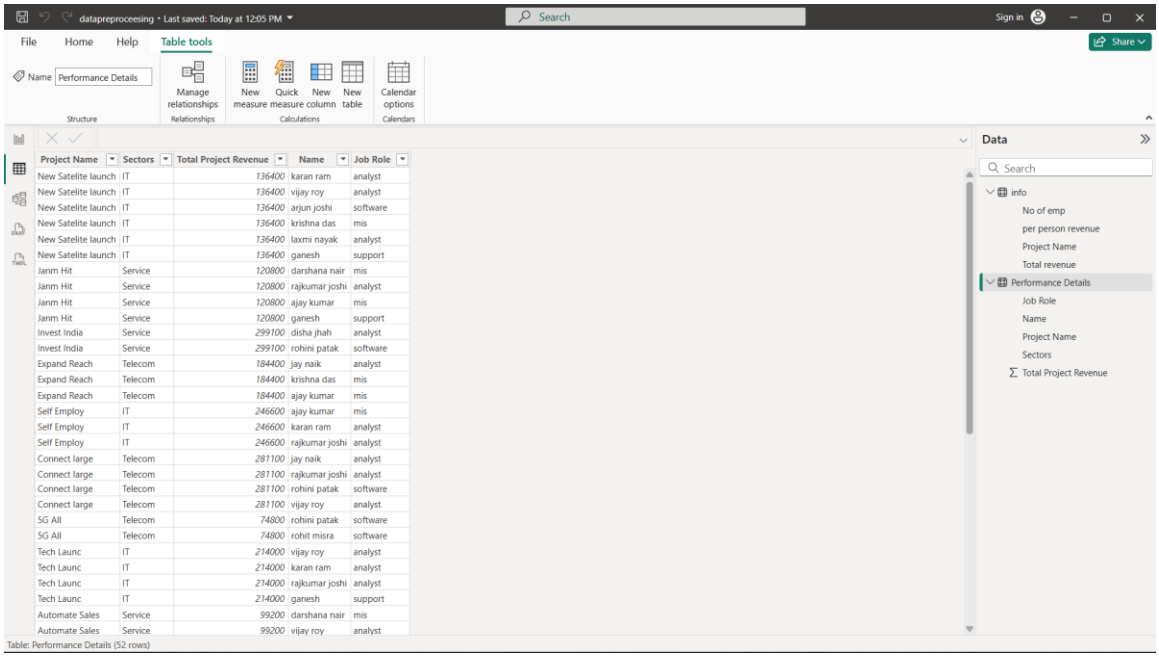
Power BI Assignment

This assignment focuses on data preprocessing and transformation in Power BI. The dataset contains details about different projects, their sectors, total project revenue, employee names, and job roles. The goal was to clean and prepare the data using Power BI's Power Query Editor and Data View for analysis and visualization.

1. Performance Details Table

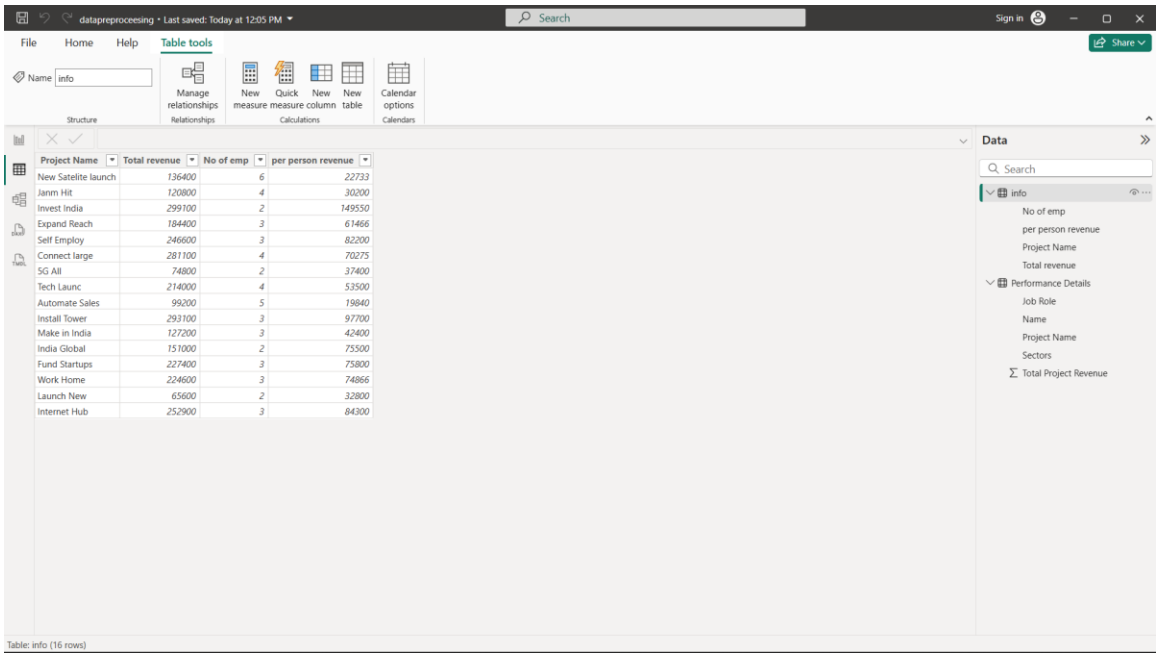
The 'Performance Details' table contains project-level data such as Project Name, Sector, Total Project Revenue, Employee Name, and Job Role. This dataset serves as the foundation for analyzing project revenues and employee contributions across departments.



Project Name	Sectors	Total Project Revenue	Name	Job Role
New Satelite launch	IT	136400	karan ram	analyst
New Satelite launch	IT	136400	vijay roy	analyst
New Satelite launch	IT	136400	arjun joshi	software
New Satelite launch	IT	136400	krishna das	mis
New Satelite launch	IT	136400	laxmi nayak	analyst
New Satelite launch	IT	136400	ganesh	support
Janm Hit	Service	120800	darshana nair	mis
Janm Hit	Service	120800	rajkumar joshi	analyst
Janm Hit	Service	120800	ajay kumar	mis
Janm Hit	Service	120800	ganesh	support
Invest India	Service	299100	disha jhah	analyst
Invest India	Service	299100	rohini patak	software
Expand Reach	Telecom	184400	jay naik	analyst
Expand Reach	Telecom	184400	krishna das	mis
Expand Reach	Telecom	184400	ajay kumar	mis
Self Employ	IT	246600	ajay kumar	mis
Self Employ	IT	246600	karan ram	analyst
Self Employ	IT	246600	rajkumar joshi	analyst
Connect large	Telecom	281100	jay naik	analyst
Connect large	Telecom	281100	rajkumar joshi	analyst
Connect large	Telecom	281100	rohini patak	software
Connect large	Telecom	281100	vijay roy	analyst
5G All	Telecom	74800	rohini patak	software
5G All	Telecom	74800	rohit misra	software
Tech Launc	IT	214000	vijay roy	analyst
Tech Launc	IT	214000	karan ram	analyst
Tech Launc	IT	214000	rajkumar joshi	analyst
Tech Launc	IT	214000	ganesh	support
Automate Sales	Service	99200	darshana nair	mis
Automate Sales	Service	99200	vijay roy	analyst

2. Info Table

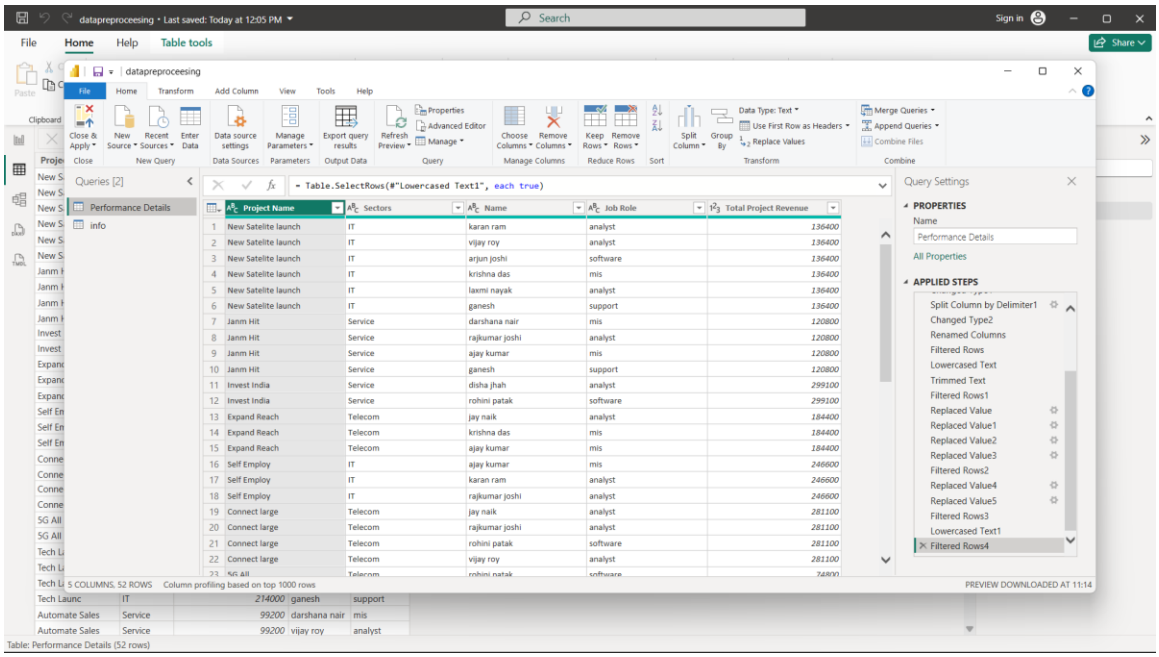
The 'info' table summarizes key metrics such as total revenue, number of employees, and per-person revenue for each project. It was derived from the 'Performance Details' table using data transformation techniques like grouping and aggregation in Power BI.



3. Data Cleaning and Transformation (Transform Data View)

In the Transform Data (Power Query Editor) window, several preprocessing steps were applied to ensure the dataset was clean, consistent, and ready for analysis. The 'Applied Steps' pane shows all the transformations performed sequentially. Below is a summary of each step:

- Changed Type: Ensured each column had the correct data type (e.g., text for names and sectors, numeric for revenue).
- Renamed Columns: Adjusted column names for clarity and consistency.
- Filtered Rows: Removed unwanted or duplicate rows from the dataset to maintain data integrity.
- Trimmed Text: Removed any leading or trailing spaces from text fields like Project Name, Name, and Job Role.
- Lowercased Text: Converted all text data to lowercase to standardize the formatting and avoid inconsistencies.
- Replaced Values: Replaced specific incorrect or inconsistent values (e.g., typos or alternate spellings).
- Split Column by Delimiter: Separated combined column values into individual columns, if necessary.
- Merged Queries: Joined the 'Performance Details' table with the 'info' table to combine relevant information for analysis.



4. Summary

Through these preprocessing steps, the data was transformed into a structured and clean format. This enabled accurate calculations of project-level insights like total revenue per project, employee distribution across sectors, and per-person revenue contribution. These clean datasets ('Performance Details' and 'info') are now ready for visualization in Power BI.