

Task5:- Visualizing High-Dimensional Data

1. Task Description:

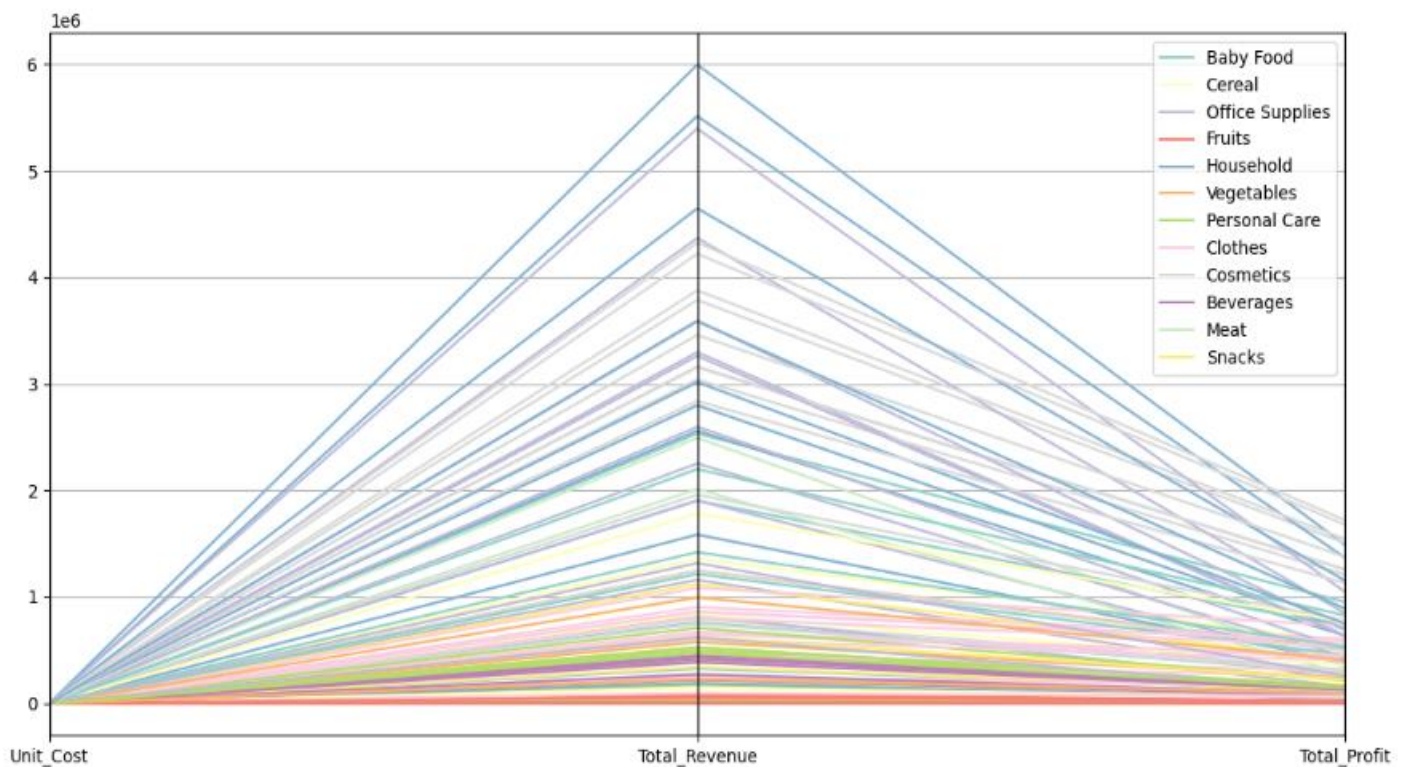
Generate a parallel coordinates plot for visualizing high-dimensional data.

2. Task Output Screenshot:

```
data_for_plot = data[['Item_Type', 'Unit_Cost', 'Total_Revenue', 'Total_Profit']]
```

```
from pandas.plotting import parallel_coordinates
plt.figure(figsize=(14, 7))
parallel_coordinates(data_for_plot, 'Item_Type', colormap=plt.get_cmap("Set3"))
```

<Axes: >



3. Algorithm Used In Task:

- Parallel Coordinates Plot Algorithm is used here.
- Parallel Coordinates (`pandas.plotting.parallel_coordinates()`) function is used, this is specific function from Pandas is used to generate the parallel coordinates plot, allowing for the visualization of high-dimensional data across multiple features.