

EDS ACTIVITY NO. 1

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DIV: CS6

PRN: 202401080037

ROLL NO. CS6-87

BATCH: C64

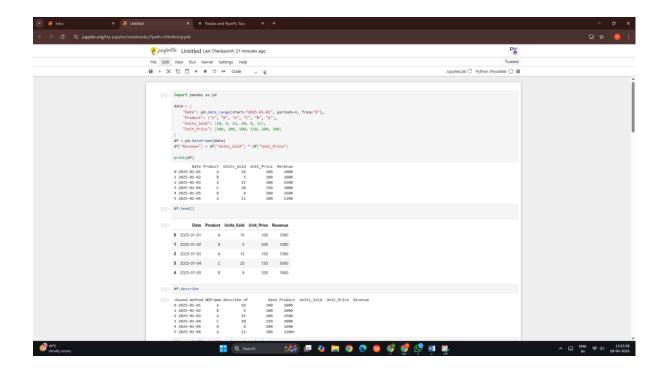
For pandas : -

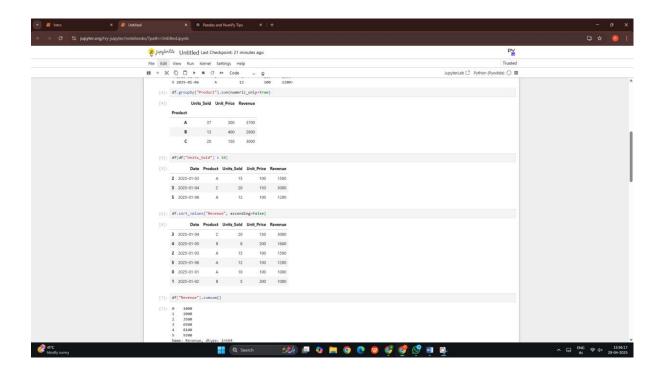
Dataset:

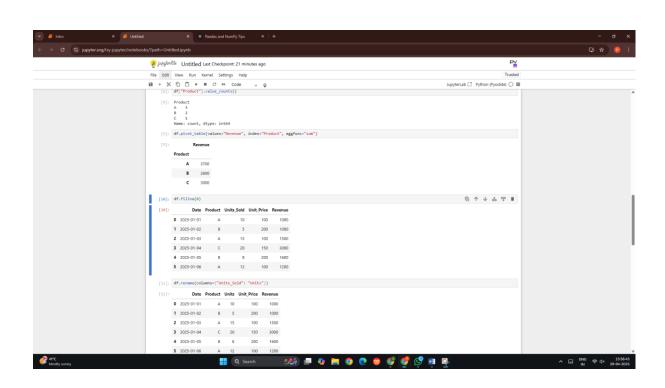
Grains:-

- 1. Show the first few rows of the dataset
- 2.Get descriptive statistics for all columns
- 3.Filter rows where Units_Sold > 10
- 4.Add a new column 'Tax' as 10% of Revenue
- 5. Sort rows by Revenue in descending order
- 6.Find the mean of Units_Sold and Revenue columns
- 7. Filter rows where Discount is 0
- 8. Group by Unit_Price and get sum of values
- 9.Create a Discounted_Revenue column after applying discount
- 10. Select only the first 3 columns of the dataframe

Outputs in jupyter notebook for all grains: -







➤ For numpy : -

❖ Dataset : -

```
[12]: import numpy as np

# 6 rows (sales records), 4 columns (features)

# Columns: Units_Sold, Unit_Price, Revenue, Discount

arr = np.array([
            [10, 100, 1000, 5],
            [5, 200, 1000, 10],
            [15, 100, 1500, 0],
            [20, 150, 3000, 15],
            [8, 200, 1600, 10],
            [12, 100, 1200, 0]
])
```

Grains:-

- 1. Reshape the array to 3 rows and 8 columns
- 2. Find the mean of each column
- 3. Find rows where Units_Sold > 10
- 4. Add a new column for Tax = 10% of Revenue
- 5. Transpose the array
- 6. Find the maximum value in Revenue column
- 7. Normalize the Units_Sold column
- 8. Find rows where Discount is 0
- 9. Find the total Revenue
- 10. Sort the array by Units_Sold

Output in jupyter notebook for all grains : -

