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Date
Page

Assesment No - 2.

Daulahe - 19/30

Q.3] →

a] To display the first 5 row of data frame sales data :

you can use the head () method

```
import pandas as Pd
Print ( sales - data.head ())
```

b) To check the display the data types of each column in the Data frame 'sales-data' you can use the : Info ()' method

```
print (sales - data.info ())
```

Q.5 :

→ To find the average quantity sold per product you can group the data by 'product ID' using the 'group by ()' method & then calculate the mean of the 'Quantity- sold' for each product. Here's how can achiere that :

code :

```
average - quantity per - product = sales_data.groupby
    ('product_ID') ['Quantity_sold'].mean()
print (average_quantity_per_product)
```

This will compute the average quantity sold for each product & store the result in a pandas series where the index represent the 'product_ID' & the values represent the average quantity sold you can then use this series for further analysis or visualization.

Q.6]
→ a] Numerical python

Q.7]
→ c] arr = np.array (1,2,3)

Q8]
→ a) create an array filled with zeroes

Q.9]
→ a) A two dimensional labeled data structure

Q.10]
→ c] df ['column_name']

Q.11]
→ b] students_data ['Age']

Q.12]
→ a] sales_data ['price'] sales_data ['Quantity_sold']

Q.13]

→ d] Numpy is primarily used for data manipulator & mathematical operation on homogeneous arrays while pandas provides high level data structures & function to manipulate & analyze structure data like Data frames.

Q.14]

→ a] df.iloc[:3]

Q.15]

→ a] Drops all rows with missing values

Q.16]

→ a] df.apply()

Q.17]

→ a] df.sort_values('column_name')

Q.18]

→ b] Returns the largest n values in a specific column

Q.19]

→ c] df.to_csv('output_csv')

Q.20]

→ b] converts a column to datatime format

Q21]

→ a] df. Fillna ( )