

Retail:

Create a cloud-based retail solution that optimizes the entire retail ecosystem. This could involve inventory management, supply chain optimization, personalized customer experiences, and seamless integration between online and offline channels. Prioritize scalability, flexibility, and real-time data analytics.

Steps to be Taken:

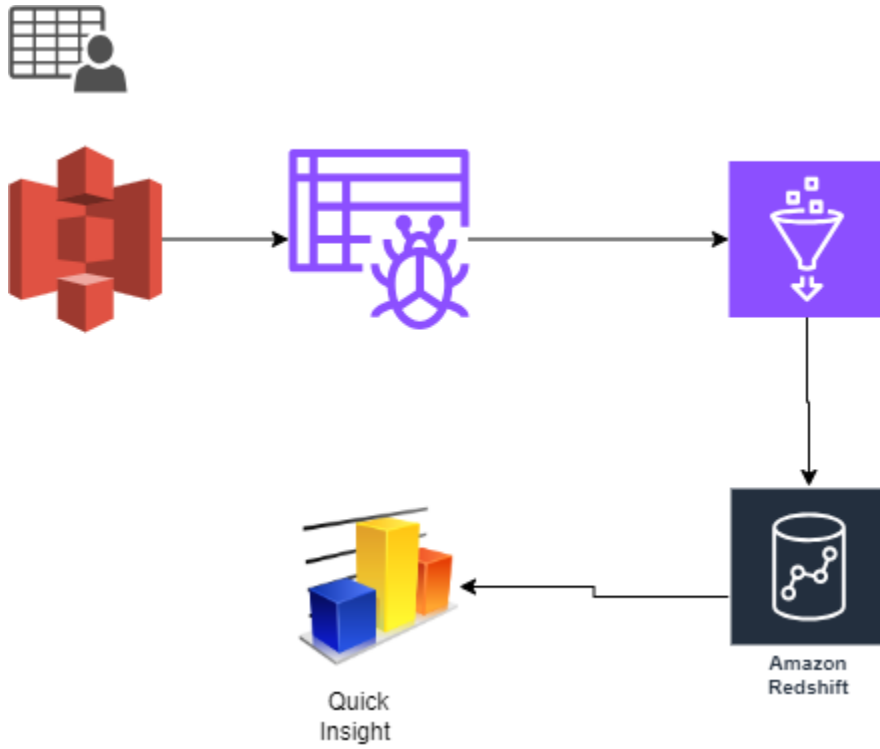
Data Exploration: Begin with data exploration to understand the structure, types, and potential challenges within the raw dataset.

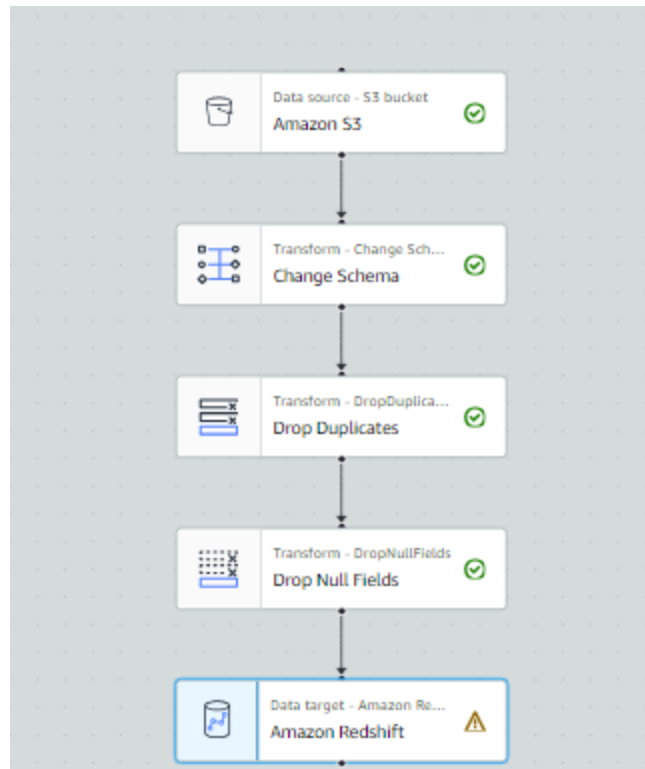
- a. Remove duplicate values.
- b. Remove Null values
- c. Transform data as per schema

EDA : haven't found any anomalies in the data set provided

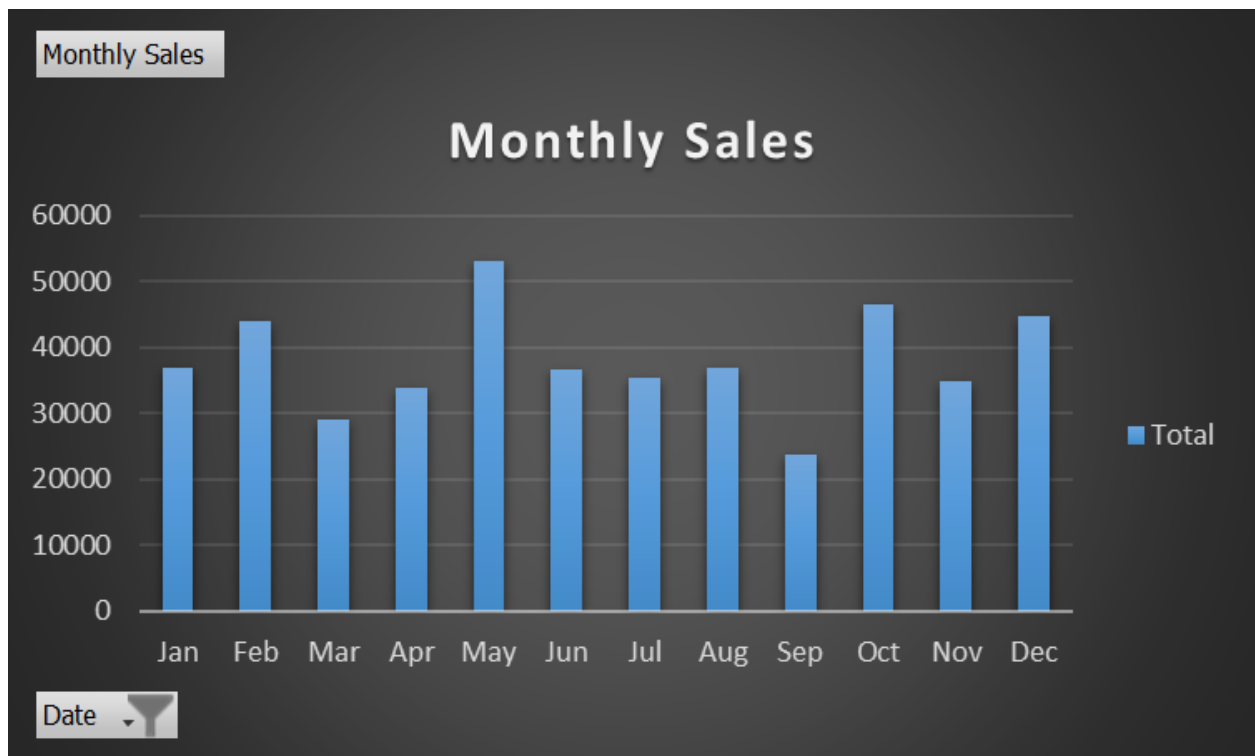
Change Schema (Apply mapping)			
Source key	Target key	Data type	Drop
transaction id	transaction	string ▼	<input type="checkbox"/>
date	date	date ▼	<input type="checkbox"/>
customer id	customer id	string ▼	<input type="checkbox"/>
gender	gender	string ▼	<input type="checkbox"/>
age	age	int ▼	<input type="checkbox"/>
product category	product cat	string ▼	<input type="checkbox"/>
quantity	quantity	long ▼	<input type="checkbox"/>
price per unit	price per u	float ▼	<input type="checkbox"/>

Cloud Solution



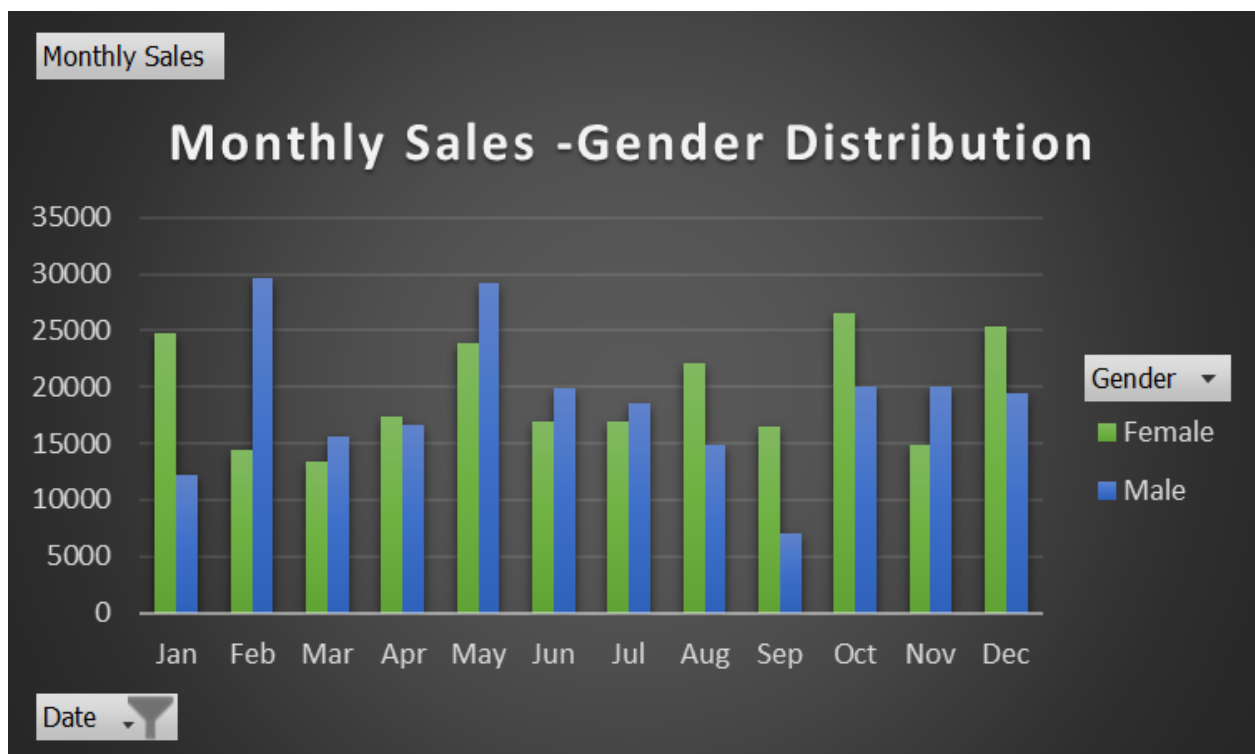
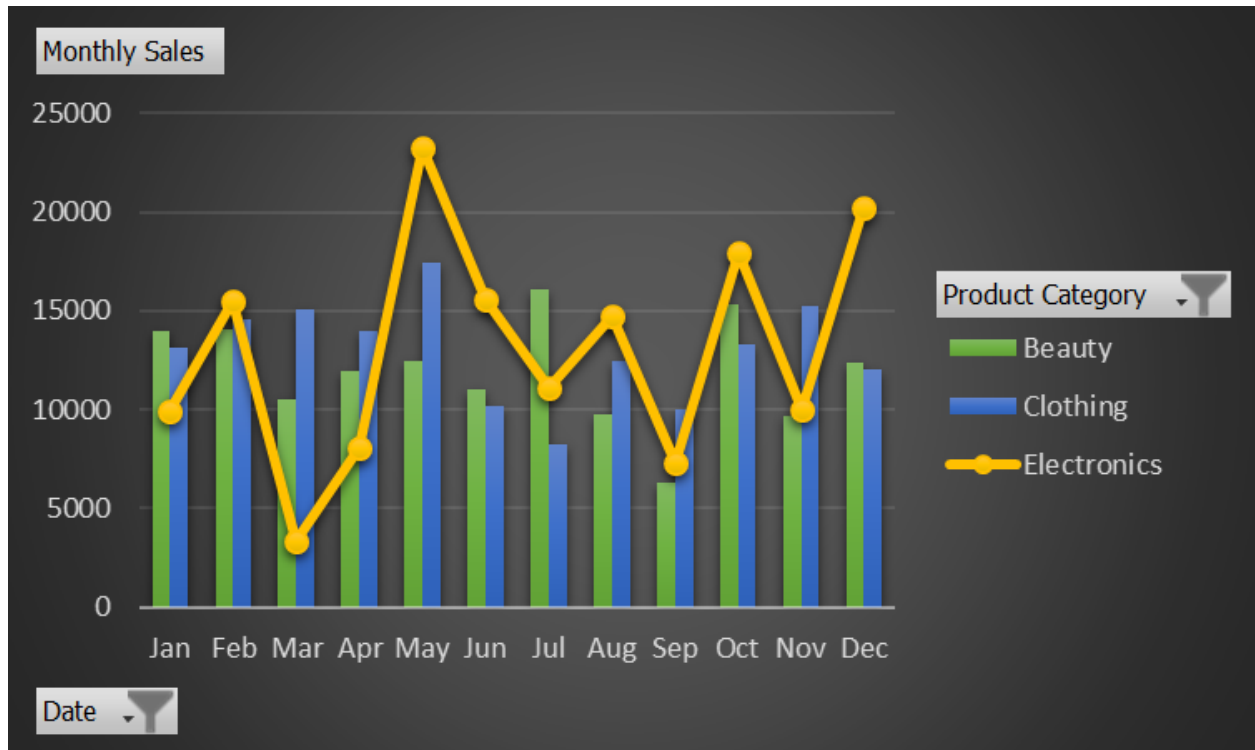


Data Insights



May has highest sales and least in September

Product Category wise monthly sales

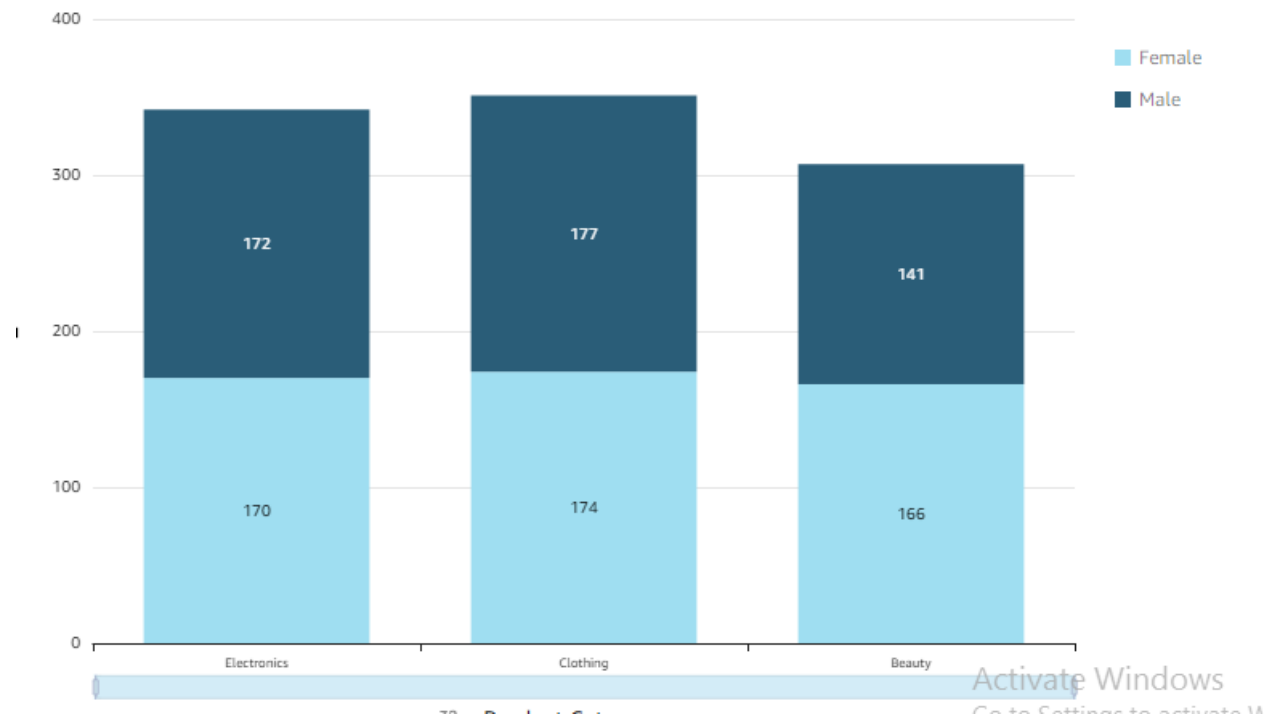


Female shops in months Oct, Dec, Jan

Least in March

Males shop more in Feb , May

Least in Sept

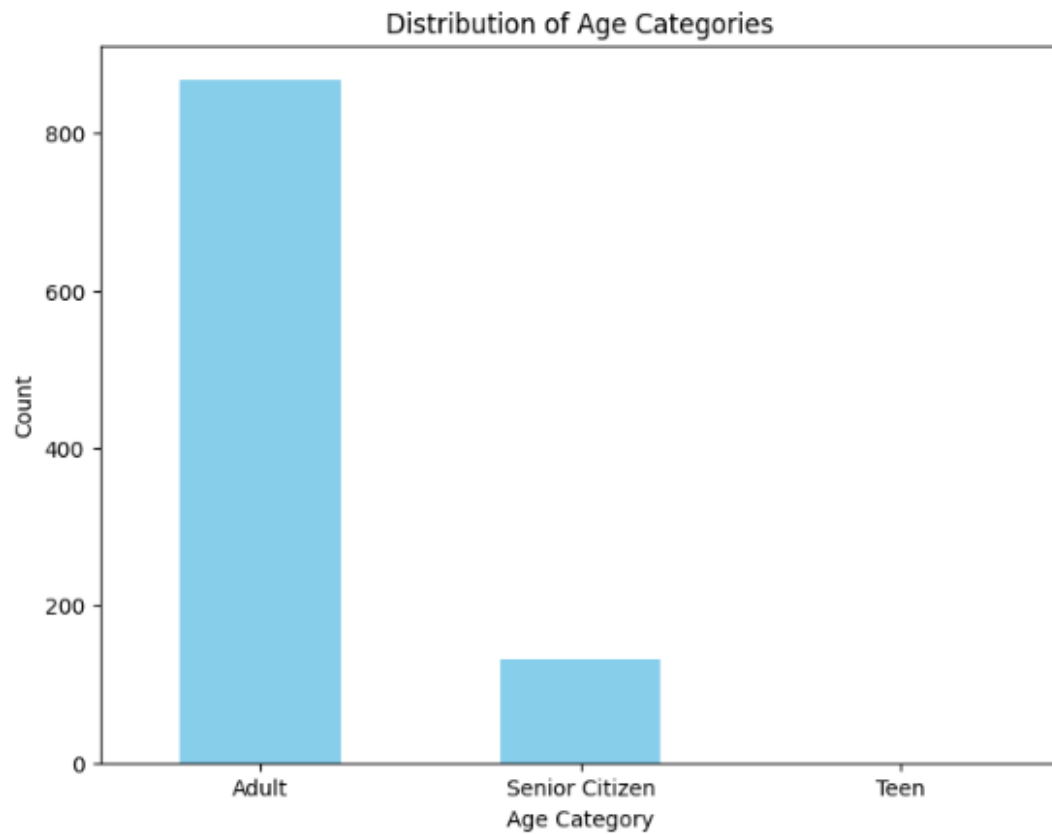


Male and Female both opts for Clothing more over other categories

Female and Male both least interested in Beauty

Age wise Insight

```
Adult      868  
Senior Citizen  132  
Teen        0  
Name: age_category, dtype: int64
```

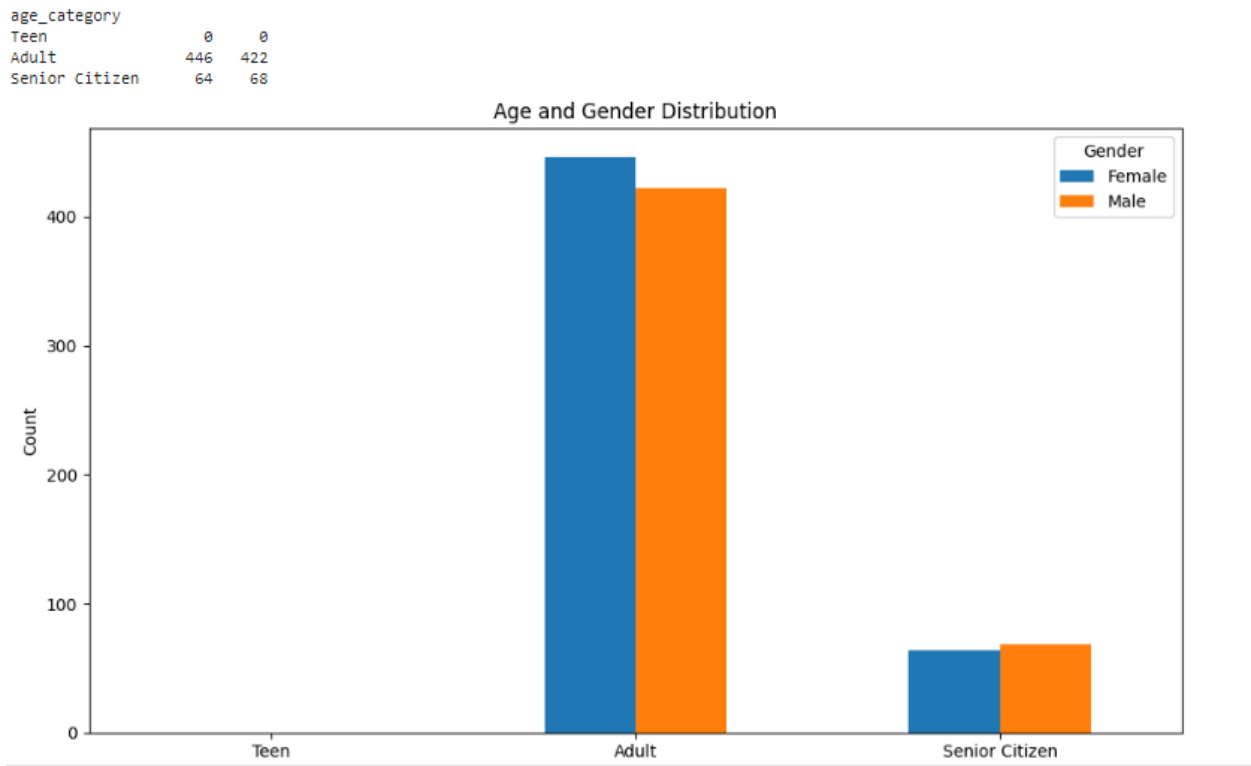


Adults are purchasing more than Senior Citizen and teens

Here teens are 18 yrs and below,

Adults are 19-59 yrs and 60 above senior citizen

Gender and Age Insight



Product Category And Age Distribution

Teen	0	0	0
Adult	271	302	295
Senior Citizen	36	49	47

