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Github: <https://github.com/felix-n12/Retail-Forecasting>

Problem description

The large company who is into beverages business in Australia. They sell their products through various super-markets and also engage into heavy promotions throughout the year. Their demand is also influenced by various factors like holiday, seasonality. They needed forecast of each of products at item level every week in weekly buckets

Data cleaning

The data has no missing values.

The data has no duplicates.

The Sales column has outliers but they are genuine so they remain in data due to the seasonalities

The date column is of object datatype it needs to be transformed to datetime

The Easter, Christmas, Covid_Flag, V_day, In-Store Promo, Catalogue Promo, Store End Promo have been changed from integers to boolean

The V_Day column has been renamed to Valentines

The Price Discount column has been converted from object to integer after removing the percentage sign in the data

Generated new columns for Australia day and Anzac day which are popular holidays in Australia

Create a new columns containing seasons that has seasons of the year about Australia