IBM REPORT 2

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```

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    base price\n",
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    region code\n",
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    op area\n",
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    cuisine\n",
**
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**
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**
    compare week price y/n\n",
**
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**
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**
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    56\n",
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    2.0\n",
    Beverages\n",
**
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    15.46\n",
    10.151684\n",
    1\n",
    0.0\n",
**
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**
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11
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    136.83\n",
```

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     **
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     "
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     "
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     **
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152.29
     "1 1466964
                 1
                        55
                              1993
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135.83
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437.53
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242.50
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11

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num orders city code \\\n",
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177
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discount amount \\\n",
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                                                            Indian
98.03
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       '' 4
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                              TYPE C
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                                                            Indian
-1.00
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compare week price y/n \n",
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   ],
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    "plt.ylabel('No. of Orders', fontdict={ 'fontsize':12}) \n",
    "plt.xlabel('Category', fontdict={'fontsize':12}) \n",
    "sns.despine(bottom = True, left = True); \n"
   ]
  },
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   "metadata": {},
   "source": [
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"We could see that Beverages are the food category which has the higest number of orders and Biriyani is the food category with least number of orders."

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"Also when we checked the number of orders with respect to Region, we could see that Region - 56 has the highest number of orders - 60.5M orders which is almost 35M orders higher than the Region with second highest number of orders - Region 34 - 24M orders."

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against the number of orders. There the high significant
difference between the Top 3 cities which has the highest
number of orders. Therefore, in our first approach we will
encode the City with Highest No. of Orders as CH1, City with
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compare week price y/n \\\n",
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center id 17
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center_id_106 center_id_108 \\\n",
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center id 124
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center id 139
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center id 152
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                meal id 1311
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meal id 1778
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meal id 1902
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meal id 2126
                  meal id 2139
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meal id 2322
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meal id 2539
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category_Biryani category_Desert \\n",
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Snacks category Pasta \\\n",
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category Sandwich \frac{1}{n},
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city_enc_4_CH3 \\n",
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 "datax.head()"
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     "checkout_price
                                  0.282108\n",
     "emailer for promotion
                                  0.277147\n",
     "base price
                                  0.222306\n",
                                  0.205188\n",
     "discount percent
     "op area
                                 0.176976\n",
     "discount amount
                                  0.152950\n",
     "compare week price
                                  0.137849\n",
     "discount y/n
                                  0.111766\n",
     "center id
                                  0.053035\n",
     "city_code
                                  0.041596\n",
                                  0.029744\n",
     "region code
     "compare week price y/n
                                  0.022898\n",
     "week
                                  0.017210\n",
     "meal id
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     "Name: num orders, dtype: float64"
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"abs(train.corr()['num orders']).sort values(ascending=False)"
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   "#### Base Model"
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train dataset as test."
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    "from sklearn.linear model import LinearRegression\n",
   "from sklearn.metrics import mean absolute error\n",
   "from sklearn.metrics import mean squared error\n",
   "from sklearn.metrics import r2 score"
   1
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      "Train Score: 0.4928484355256698\n",
      "Test Score: 0.5060097204451955\n",
      "R squared: 0.5060097204451955\n",
      "RMSE : 194.4023205177741\n"
     ]
    }
   ],
   "source": [
    "train=datax[datax['week'].isin(range(1,136))]\n",
    "test=datax[datax['week'].isin(range(136,146))]\n",
```

```
"\n",
    "X train=train.drop(['id','num orders','week'],axis=1)\n",
    "y train=train['num orders']\n",
    "\n",
    "X test=test.drop(['id','num orders','week'],axis=1)\n",
    "y test=test['num orders']\n",
    "\n",
    "reg = LinearRegression()\n",
    "reg.fit(X train, y train) \n",
    "print('Train Score :',reg.score(X train,y train))\n",
    "print('Test Score :',reg.score(X test,y test))\n",
    "\n",
    "y pred = reg.predict(X test)\n",
    "print('R squared :',(r2 score(y test,y pred)))\n",
"print('RMSE :',np.sqrt(mean squared error(y test,y pred)))"
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Transformation"
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      "RMSLE: 0.6348071399794168\n"
     1
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    "\n",
    "cat=datax.drop(['checkout price','base price','discount
amount', 'discount percent', 'compare week price'], axis=1) \n",
    "num=datax[['checkout price','base price','discount
amount', 'discount percent', 'compare week price']]\n",
    "scal=
pd.DataFrame(sc.fit transform(num),columns=num.columns)\n",
```

```
"datas=pd.concat([scal,cat],axis=1)\n",
    "train=datas[datas['week'].isin(range(1,136))]\n",
    "test=datas[datas['week'].isin(range(136,146))]\n",
    "\n",
    "\n",
    "X train=train.drop(['id','num orders','week'],axis=1)\n",
    "y train=np.log(train['num orders']) #Applying Log
Transformation on the Target Feature\n",
    "\n",
    "X test=test.drop(['id','num orders','week'],axis=1)\n",
    "y test=np.log(test['num orders']) #Applying Log
Transformation on the Target Feature\n",
    "\n",
    "reg = LinearRegression()\n",
    "reg.fit(X train, y train) \n",
    "print('Train Score:',reg.score(X train,y train))\n",
    "print('Test Score :',reg.score(X test,y test))\n",
    "\n",
    "y pred = reg.predict(X test)\n",
    "print('R squared :', (r2 score(y test, y pred)))\n",
"print('RMSLE :',np.sqrt(mean squared error(y test,y pred)))"
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  "objy=datay[['Quarter', 'Year']]\n",
 "numy=datay.drop(['Quarter', 'Year'],axis=1)\n",
  "encodely=pd.get dummies(objy,drop first = True)\n",
 "encodely.head()\n",
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 "datay=pd.concat([numy,encodely],axis=1)"
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         q3=round(train[col].quantile(0.75),6)\n",
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```
**
         q1=round(train[col].quantile(0.25),6)\n",
    **
         iqr=q3-q1\n",
    "
         lw = q1 - (3*iqr) \n",
         11
         uo=train[train[col]>hw].shape[0]\n",
         lo=train[train[col]<lw].shape[0]\n",</pre>
    **
         print('Number of Upper Outliers :',uo)\n",
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GITHUB & PROJECT DEMO LINK