

TEAM ID: PNT2022TMID32368

## PROJECT NAME: DemandEst - AI powered Food Demand Forecaster

### Team Leader

The screenshot displays a Jupyter Notebook interface with the following content:

### Exploratory Data Analysis

In [96]: `train.head()`

Out[96]:

	id	week	center_id	meal_id	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders
0	1379560	1	55	1885	136.83	152.29	0	0	177
1	1466964	1	55	1993	136.83	135.83	0	0	270
2	1346989	1	55	2539	134.86	135.86	0	0	189
3	1338232	1	55	2139	339.50	437.53	0	0	54
4	1448490	1	55	2631	243.50	242.50	0	0	40

In [97]: `test.head()`

Out[97]:

	id	week	center_id	meal_id	checkout_price	base_price	emailer_for_promotion	homepage_featured
0	1028232	146	55	1885	158.11	159.11	0	0
1	1127204	146	55	1993	160.11	159.11	0	0
2	1212707	146	55	2539	157.14	159.14	0	0
3	1082698	146	55	2631	162.02	162.02	0	0
4	1400926	146	55	1248	163.93	163.93	0	0

In [98]: `train.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 456548 entries, 0 to 456547
Data columns (total 9 columns):
#   Column              Non-Null Count  Dtype
---  ---
0   id                   456548 non-null  int64
1   week                 456548 non-null  int64
2   center_id            456548 non-null  int64
3   meal_id              456548 non-null  int64
4   checkout_price        456548 non-null  float64
5   base_price            456548 non-null  float64
6   emailer_for_promotion 456548 non-null  int64
7   homepage_featured     456548 non-null  int64
8   num_orders           456548 non-null  int64
dtypes: float64(2), int64(7)
memory usage: 31.3 MB
```

In [99]: `test.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 32573 entries, 0 to 32572
Data columns (total 8 columns):
#   Column              Non-Null Count  Dtype
---  ---
0   id                   32573 non-null  int64
1   week                 32573 non-null  int64
2   center_id            32573 non-null  int64
3   meal_id              32573 non-null  int64
```

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Code

```
3 meal_id 32573 non-null int64
4 checkout_price 32573 non-null float64
5 base_price 32573 non-null float64
6 emailer_for_promotion 32573 non-null int64
7 homepage_featured 32573 non-null int64
dtypes: float64(2), int64(6)
memory usage: 2.0 MB
```

In [100]: train['num\_orders'].describe()

Out[100]:

count	456548.000000
mean	261.872760
std	395.922798
min	13.000000
25%	54.000000
50%	136.000000
75%	324.000000
max	24299.000000
Name: num_orders, dtype: float64	

In [101]: train.describe()

Out[101]:

	id	week	center_id	meal_id	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders
count	4.565480e+05	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000
mean	1.250096e+06	74.768771	82.105796	2024.337458	332.238933	354.156627	0.081152	0.10920	261.872760
std	1.443548e+05	41.524956	45.975046	547.420920	152.939723	160.715914	0.273069	0.31189	395.922798
min	1.000000e+06	1.000000	10.000000	1062.000000	2.970000	55.350000	0.000000	0.00000	13.000000
25%	1.124999e+06	39.000000	43.000000	1558.000000	228.950000	243.500000	0.000000	0.00000	54.000000

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Code

```
In [100]: train['num_orders'].describe()

Out[100]: count    456548.000000
          mean      261.872760
          std       395.922798
          min        13.000000
          25%        54.000000
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          max      24299.000000
          Name: num_orders, dtype: float64

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mean	1.250096e+06	74.768771	82.105796	2024.337458	332.238933	354.156627	0.081152	0.10920	261.872760
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min	1.000000e+06	1.000000	10.000000	1062.000000	2.970000	55.350000	0.000000	0.00000	13.000000
25%	1.124999e+06	39.000000	43.000000	1558.000000	228.950000	243.500000	0.000000	0.00000	54.000000
50%	1.250184e+06	76.000000	76.000000	1993.000000	296.820000	310.460000	0.000000	0.00000	136.000000
75%	1.375140e+06	111.000000	110.000000	2539.000000	445.230000	458.870000	0.000000	0.00000	324.000000
max	1.499999e+06	145.000000	186.000000	2956.000000	866.270000	866.270000	1.000000	1.00000	24299.000000

# Team Member 1

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## Exploratory Data Analysis

```
In [96]: train.head()
```

```
Out[96]:
```

	id	week	center_id	meal_id	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders
0	1379560	1	55	1885	136.83	152.29	0	0	177
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Out[97]:
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	id	week	center_id	meal_id	checkout_price	base_price	emailer_for_promotion	homepage_featured
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```
In [98]: train.info()
```

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In [98]: train.info()
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<class 'pandas.core.frame.DataFrame'>
RangeIndex: 456548 entries, 0 to 456547
Data columns (total 9 columns):
#   Column              Non-Null Count  Dtype
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0   id                   456548 non-null  int64
1   week                 456548 non-null  int64
2   center_id            456548 non-null  int64
3   meal_id              456548 non-null  int64
4   checkout_price       456548 non-null  float64
5   base_price           456548 non-null  float64
6   emailer_for_promotion 456548 non-null  int64
7   homepage_featured    456548 non-null  int64
8   num_orders           456548 non-null  int64
dtypes: float64(2), int64(7)
memory usage: 31.3 MB
```

```
In [99]: test.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 32573 entries, 0 to 32572
Data columns (total 8 columns):
#   Column              Non-Null Count  Dtype
---  ---
0   id                   32573 non-null  int64
1   week                 32573 non-null  int64
2   center_id            32573 non-null  int64
3   meal_id              32573 non-null  int64
```

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Code

```
3 meal_id 32573 non-null int64
4 checkout_price 32573 non-null float64
5 base_price 32573 non-null float64
6 emailer_for_promotion 32573 non-null int64
7 homepage_featured 32573 non-null int64
dtypes: float64(2), int64(6)
memory usage: 2.0 MB
```

In [100]: train['num\_orders'].describe()

Out[100]:

count	456548.000000
mean	261.872760
std	395.922798
min	13.000000
25%	54.000000
50%	136.000000
75%	324.000000
max	24299.000000
Name: num_orders, dtype: float64	

In [101]: train.describe()

Out[101]:

	id	week	center_id	meal_id	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders
count	4.565480e+05	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000
mean	1.250096e+06	74.768771	82.105796	2024.337458	332.238933	354.156627	0.081152	0.10920	261.872760
std	1.443548e+05	41.524956	45.975046	547.420920	152.939723	160.715914	0.273069	0.31189	395.922798
min	1.000000e+06	1.000000	10.000000	1062.000000	2.970000	55.350000	0.000000	0.00000	13.000000
25%	1.124999e+06	39.000000	43.000000	1558.000000	228.950000	243.500000	0.000000	0.00000	54.000000

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Code

```
In [100]: train['num_orders'].describe()

Out[100]: count    456548.000000
          mean      261.872760
          std       395.922798
          min        13.000000
          25%        54.000000
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mean	1.250096e+06	74.768771	82.105796	2024.337458	332.238933	354.156627	0.081152	0.10920	261.872760
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max	1.499999e+06	145.000000	186.000000	2956.000000	866.270000	866.270000	1.000000	1.00000	24299.000000

## Team Member 2

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### Exploratory Data Analysis

```
In [96]: train.head()
```

```
Out[96]:
```

	id	week	center_id	meal_id	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders
0	1379560	1	55	1885	136.83	152.29	0	0	177
1	1466964	1	55	1993	136.83	135.83	0	0	270
2	1346989	1	55	2539	134.86	135.86	0	0	189
3	1338232	1	55	2139	339.50	437.53	0	0	54
4	1448490	1	55	2631	243.50	242.50	0	0	40

```
In [97]: test.head()
```

```
Out[97]:
```

	id	week	center_id	meal_id	checkout_price	base_price	emailer_for_promotion	homepage_featured
0	1028232	146	55	1885	158.11	159.11	0	0
1	1127204	146	55	1993	160.11	159.11	0	0
2	1212707	146	55	2539	157.14	159.14	0	0
3	1082698	146	55	2631	162.02	162.02	0	0
4	1400926	146	55	1248	163.93	163.93	0	0

```
In [98]: train.info()
```

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In [98]: train.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 456548 entries, 0 to 456547
Data columns (total 9 columns):
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3   meal_id              456548 non-null  int64
4   checkout_price       456548 non-null  float64
5   base_price           456548 non-null  float64
6   emailer_for_promotion 456548 non-null  int64
7   homepage_featured    456548 non-null  int64
8   num_orders           456548 non-null  int64
dtypes: float64(2), int64(7)
memory usage: 31.3 MB
```

```
In [99]: test.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 32573 entries, 0 to 32572
Data columns (total 8 columns):
#   Column              Non-Null Count  Dtype
---  ---
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1   week                 32573 non-null  int64
2   center_id            32573 non-null  int64
3   meal_id              32573 non-null  int64
```



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Code

```
3 meal_id 32573 non-null int64
4 checkout_price 32573 non-null float64
5 base_price 32573 non-null float64
6 emailer_for_promotion 32573 non-null int64
7 homepage_featured 32573 non-null int64
dtypes: float64(2), int64(6)
memory usage: 2.0 MB
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Code

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          mean      261.872760
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## Team Member 3

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### Exploratory Data Analysis

```
In [96]: train.head()
```

```
Out[96]:
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```
In [97]: test.head()
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```
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3   meal_id               456548 non-null  int64
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5   base_price             456548 non-null  float64
6   emailer_for_promotion  456548 non-null  int64
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File Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3 (ipykernel)

Code

```
3 meal_id 32573 non-null int64
4 checkout_price 32573 non-null float64
5 base_price 32573 non-null float64
6 emailer_for_promotion 32573 non-null int64
7 homepage_featured 32573 non-null int64
dtypes: float64(2), int64(6)
memory usage: 2.0 MB
```

In [100]: train['num\_orders'].describe()

Out[100]:

count	456548.000000
mean	261.872760
std	395.922798
min	13.000000
25%	54.000000
50%	136.000000
75%	324.000000
max	24299.000000
Name: num_orders, dtype: float64	

In [101]: train.describe()

Out[101]:

	id	week	center_id	meal_id	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders
count	4.565480e+05	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000
mean	1.250096e+06	74.768771	82.105796	2024.337458	332.238933	354.156627	0.081152	0.10920	261.872760
std	1.443548e+05	41.524956	45.975046	547.420920	152.939723	160.715914	0.273069	0.31189	395.922798
min	1.000000e+06	1.000000	10.000000	1062.000000	2.970000	55.350000	0.000000	0.00000	13.000000
25%	1.124999e+06	39.000000	43.000000	1558.000000	228.950000	243.500000	0.000000	0.00000	54.000000

IBM Home Page - Select or create a Code - Jupyter Notebook

localhost:8891/notebooks/Downloads/SBSPS-Challenge-8325-Food-Demand-Forecasting-for-Food-Delivery-Company-using-IBM-Cloud-main/SBSPS-Challenge-...

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Code

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          mean      261.872760
          std       395.922798
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          25%        54.000000
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In [101]: train.describe()

Out[101]:
```

	id	week	center_id	meal_id	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders
count	4.565480e+05	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000	456548.000000
mean	1.250096e+06	74.768771	82.105796	2024.337458	332.238933	354.156627	0.081152	0.10920	261.872760
std	1.443548e+05	41.524956	45.975046	547.420920	152.939723	160.715914	0.273069	0.31189	395.922798
min	1.000000e+06	1.000000	10.000000	1062.000000	2.970000	55.350000	0.000000	0.00000	13.000000
25%	1.124999e+06	39.000000	43.000000	1558.000000	228.950000	243.500000	0.000000	0.00000	54.000000
50%	1.250184e+06	76.000000	76.000000	1993.000000	296.820000	310.460000	0.000000	0.00000	136.000000
75%	1.375140e+06	111.000000	110.000000	2539.000000	445.230000	458.870000	0.000000	0.00000	324.000000
max	1.499999e+06	145.000000	186.000000	2956.000000	866.270000	866.270000	1.000000	1.00000	24299.000000