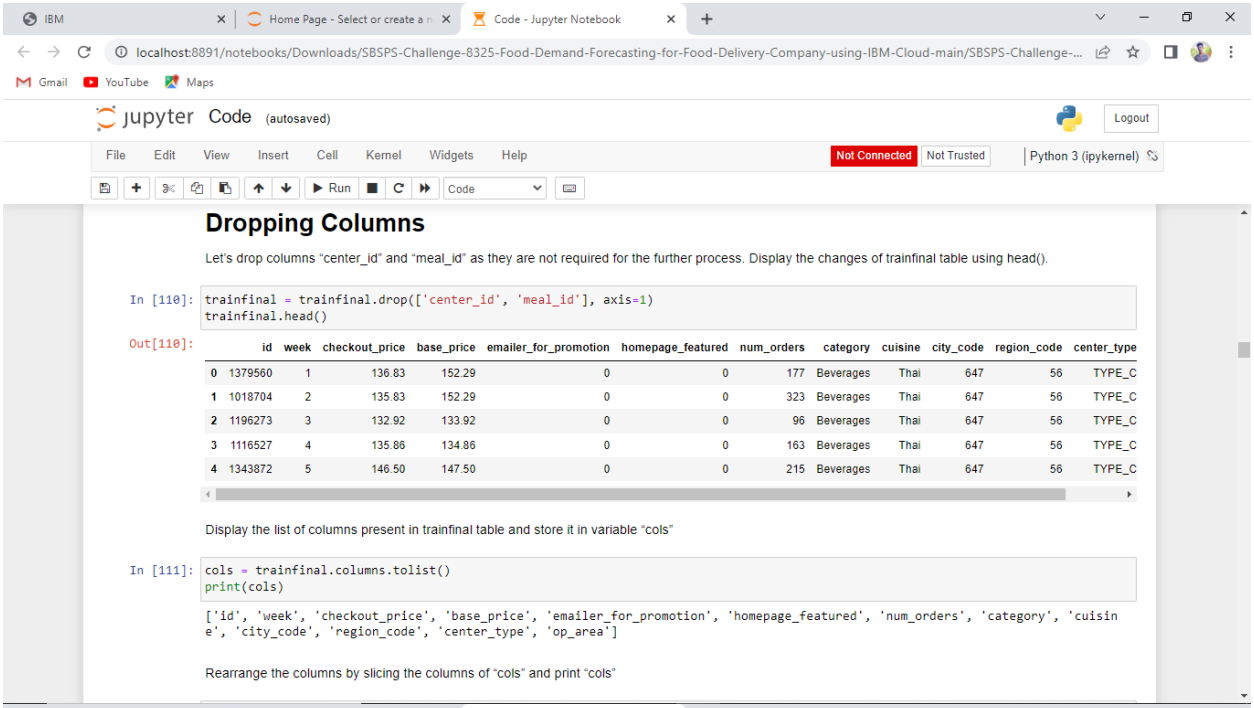
TEAM ID: PNT2022TMID17645

PROJECT NAME: DemandEst - AI powered Food Demand Forecaster

Team Leader



Dropping Columns

Let's drop columns "center_id" and "meal_id" as they are not required for the further process. Display the changes of trainfinal table using head().

```
In [110]: trainfinal = trainfinal.drop(['center_id', 'meal_id'], axis=1)
          trainfinal.head()
```

Out[110]:

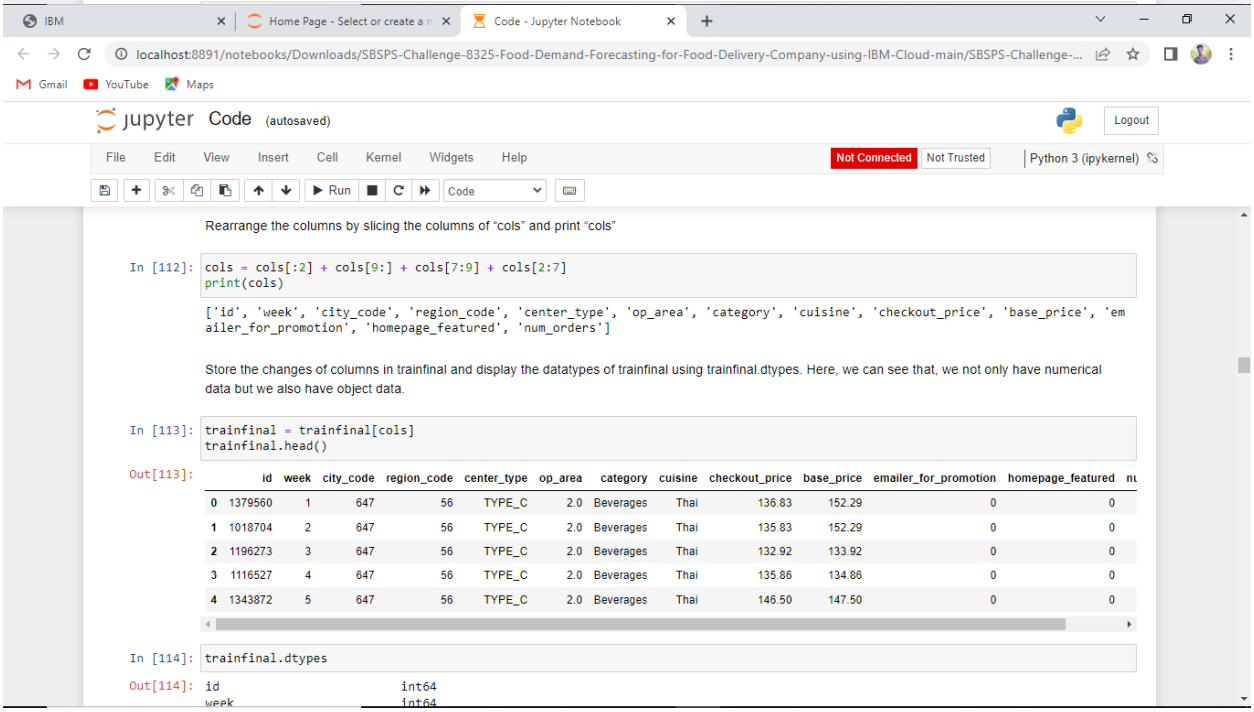
	id	week	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders	category	cuisine	city_code	region_code	center_type
0	1379560	1	136.83	152.29	0	0	177	Beverages	Thai	647	56	TYPE_C
1	1018704	2	135.83	152.29	0	0	323	Beverages	Thai	647	56	TYPE_C
2	1196273	3	132.92	133.92	0	0	96	Beverages	Thai	647	56	TYPE_C
3	1116527	4	135.86	134.86	0	0	163	Beverages	Thai	647	56	TYPE_C
4	1343872	5	146.50	147.50	0	0	215	Beverages	Thai	647	56	TYPE_C

Display the list of columns present in trainfinal table and store it in variable "cols"

```
In [111]: cols = trainfinal.columns.tolist()
          print(cols)
```

```
['id', 'week', 'checkout_price', 'base_price', 'emailer_for_promotion', 'homepage_featured', 'num_orders', 'category', 'cuisin
e', 'city_code', 'region_code', 'center_type', 'op_area']
```

Rearrange the columns by slicing the columns of "cols" and print "cols"



Rearrange the columns by slicing the columns of "cols" and print "cols"

```
In [112]: cols = cols[:2] + cols[9:] + cols[7:9] + cols[2:7]
          print(cols)
```

```
['id', 'week', 'city_code', 'region_code', 'center_type', 'op_area', 'category', 'cuisine', 'checkout_price', 'base_price', 'em
ailer_for_promotion', 'homepage_featured', 'num_orders']
```

Store the changes of columns in trainfinal and display the datatypes of trainfinal using trainfinal.dtypes. Here, we can see that, we not only have numerical data but we also have object data.

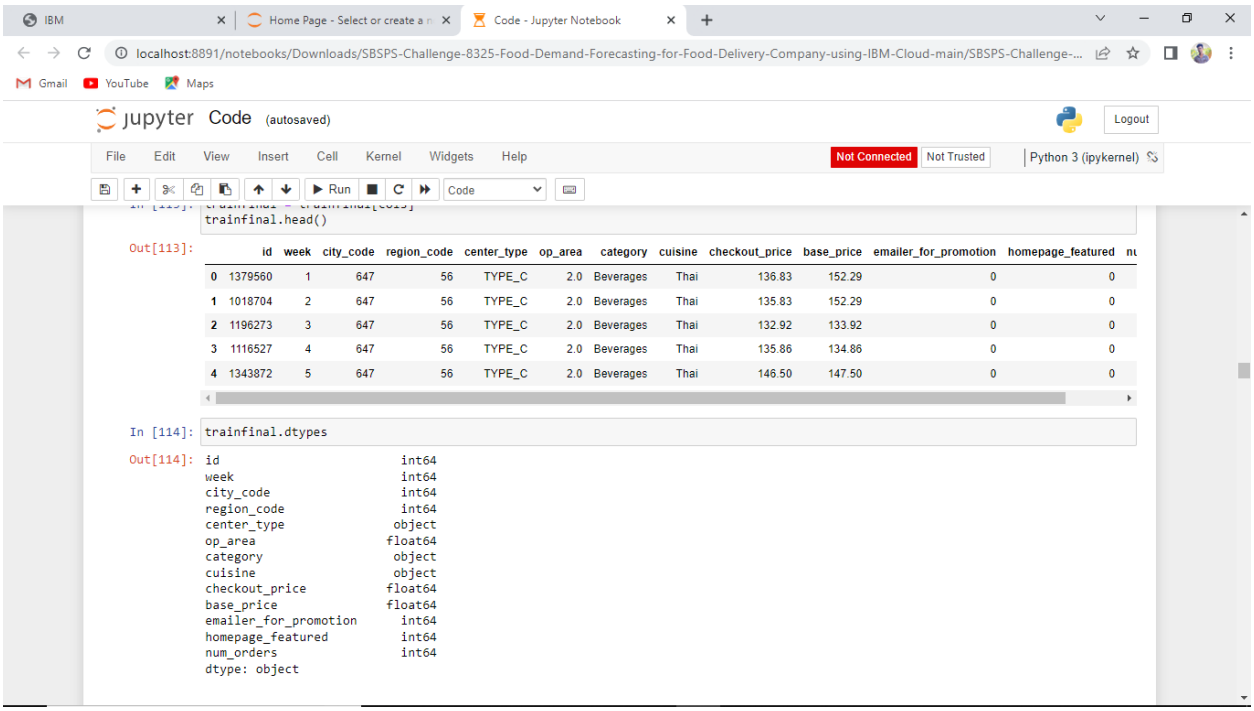
```
In [113]: trainfinal = trainfinal[cols]
          trainfinal.head()
```

Out[113]:

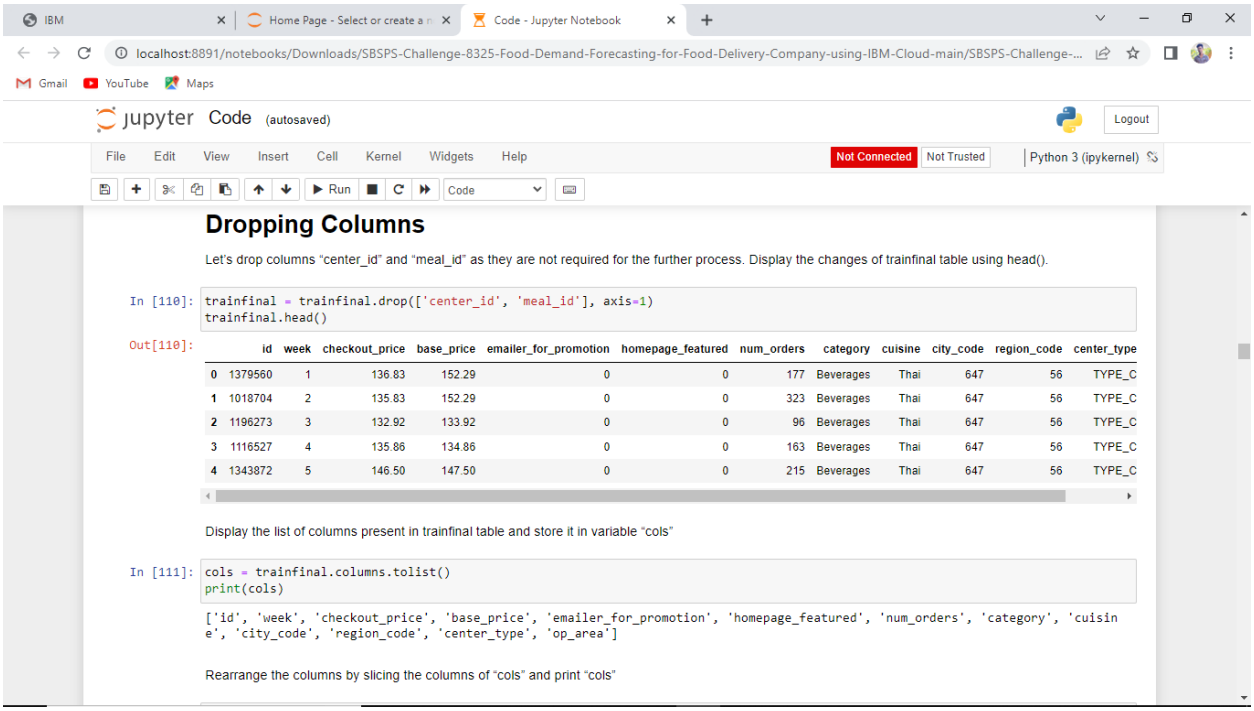
	id	week	city_code	region_code	center_type	op_area	category	cuisine	checkout_price	base_price	emailer_for_promotion	homepage_featured	nu
0	1379560	1	647	56	TYPE_C	2.0	Beverages	Thai	136.83	152.29	0	0	
1	1018704	2	647	56	TYPE_C	2.0	Beverages	Thai	135.83	152.29	0	0	
2	1196273	3	647	56	TYPE_C	2.0	Beverages	Thai	132.92	133.92	0	0	
3	1116527	4	647	56	TYPE_C	2.0	Beverages	Thai	135.86	134.86	0	0	
4	1343872	5	647	56	TYPE_C	2.0	Beverages	Thai	146.50	147.50	0	0	

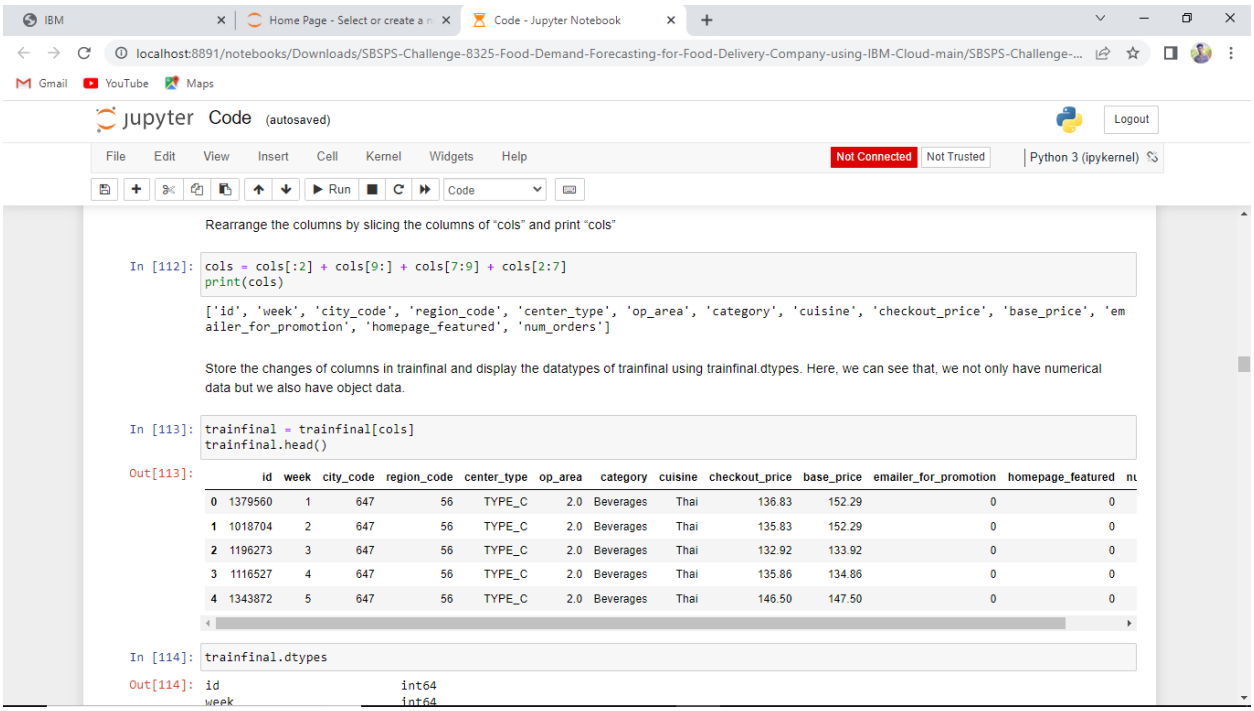
```
In [114]: trainfinal.dtypes
```

```
Out[114]: id                    int64
          week                  int64
```



Team Member 1

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Gmail
YouTube
Maps
jupyter Code (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
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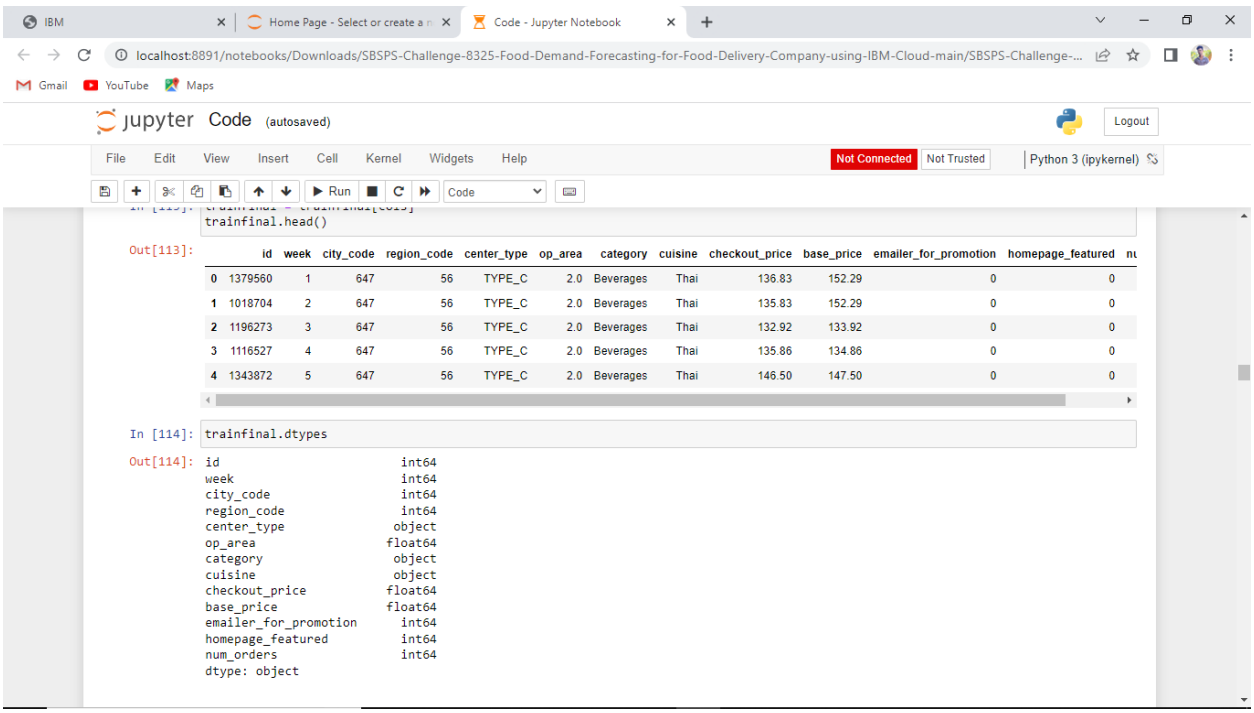
Not Trusted
Python 3 (ipykernel)
Run
Code
Rearrange the columns by slicing the columns of "cols" and print "cols"
In [112]:
cols = cols[:2] + cols[9:] + cols[7:9] + cols[2:7]
print(cols)
['id', 'week', 'city_code', 'region_code', 'center_type', 'op_area', 'category', 'cuisine', 'checkout_price', 'base_price', 'em
ailer_for_promotion', 'homepage_featured', 'num_orders']
Store the changes of columns in trainfinal and display the datatypes of trainfinal using trainfinal.dtypes. Here, we can see that, we not only have numerical data but we also have object data.
In [113]:
trainfinal = trainfinal[cols]
trainfinal.head()
Out[113]:
id week city_code region_code center_type op_area category cuisine checkout_price base_price emailer_for_promotion homepage_featured nu
0 1379560 1 647 56 TYPE_C 2.0 Beverages Thai 136.83 152.29 0 0
1 1018704 2 647 56 TYPE_C 2.0 Beverages Thai 135.83 152.29 0 0
2 1196273 3 647 56 TYPE_C 2.0 Beverages Thai 132.92 133.92 0 0
3 1116527 4 647 56 TYPE_C 2.0 Beverages Thai 135.86 134.86 0 0
4 1343872 5 647 56 TYPE_C 2.0 Beverages Thai 146.50 147.50 0 0
In [114]:
trainfinal.dtypes
Out[114]:
id int64
week int64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Gmail
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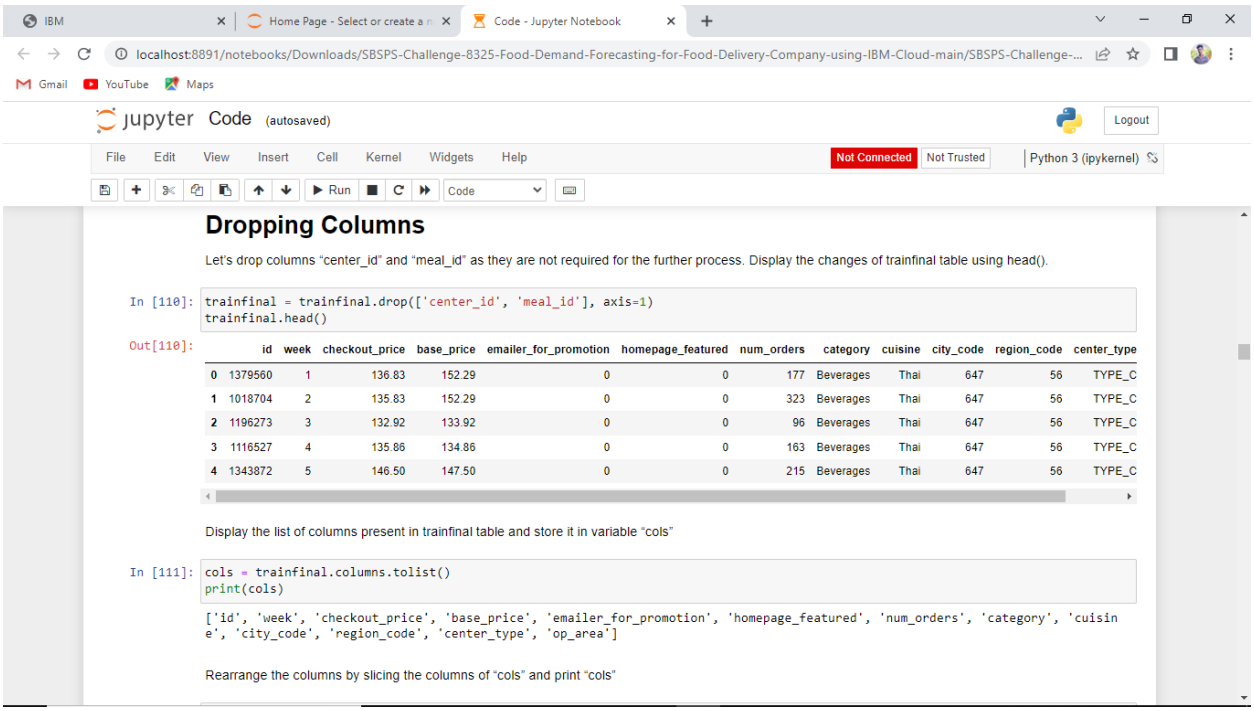
4 1343872 5 647 56 TYPE_C 2.0 Beverages Thai 146.50 147.50 0 0
In [114]:
trainfinal.dtypes
Out[114]:
id int64
week int64
city_code int64
region_code int64
center_type object
op_area float64
category object
cuisine object
checkout_price float64
base_price float64
emailer_for_promotion int64
homepage_featured int64
num_orders int64
dtype: object

Team Member 2



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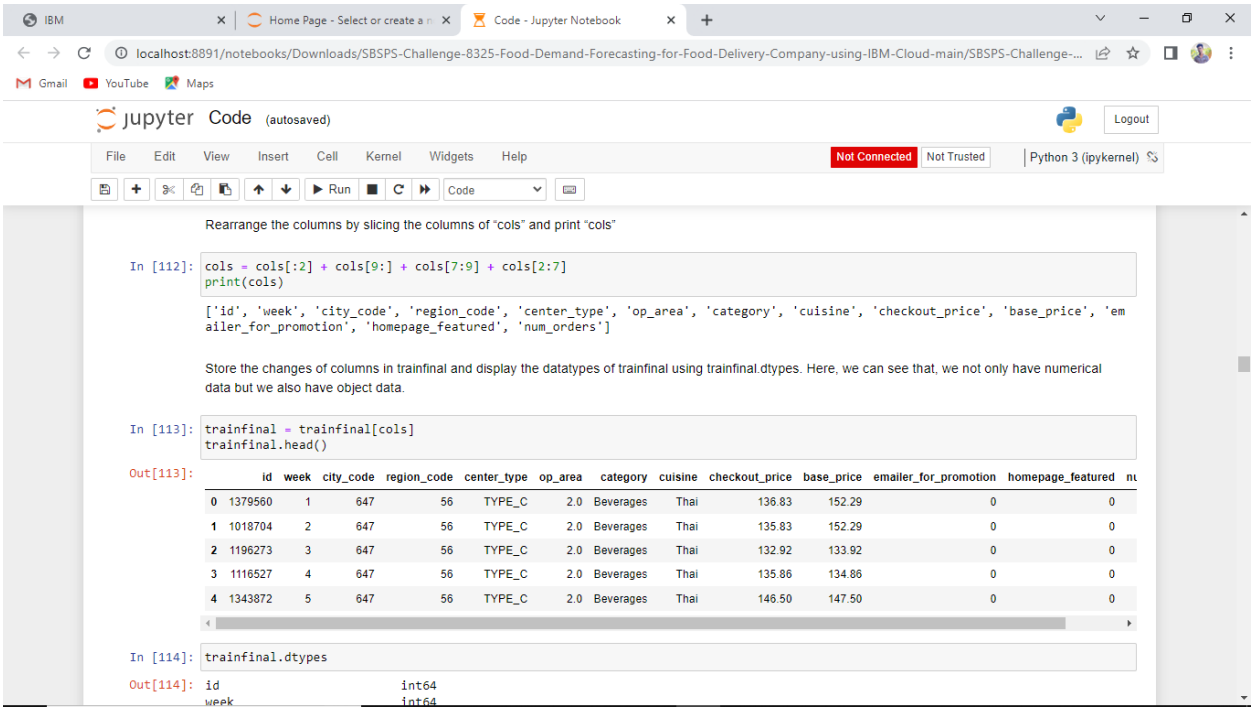
Rearrange the columns by slicing the columns of "cols" and print "cols"



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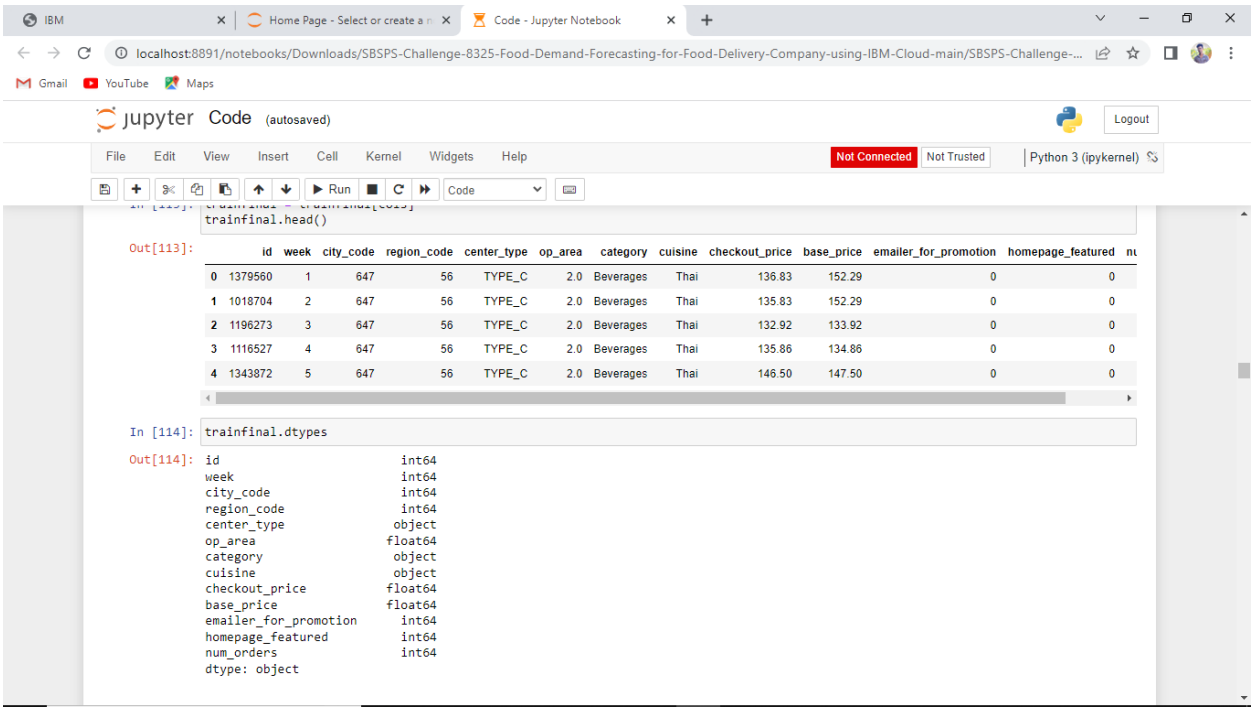
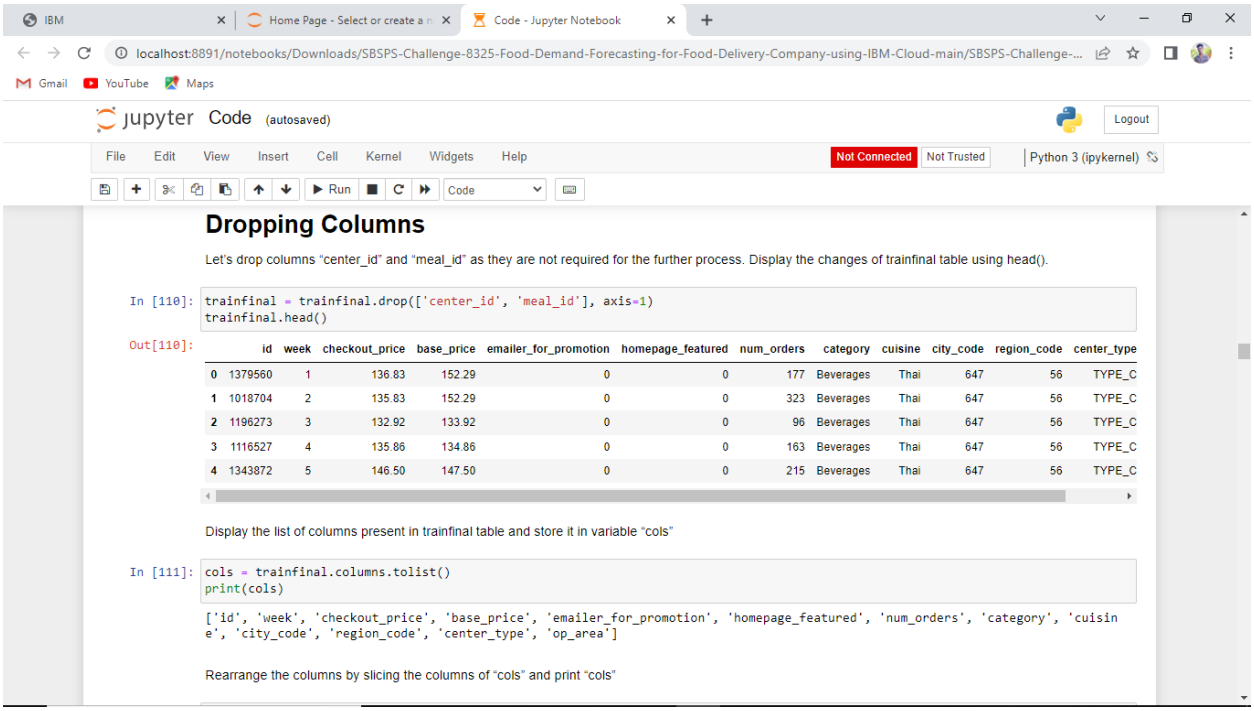
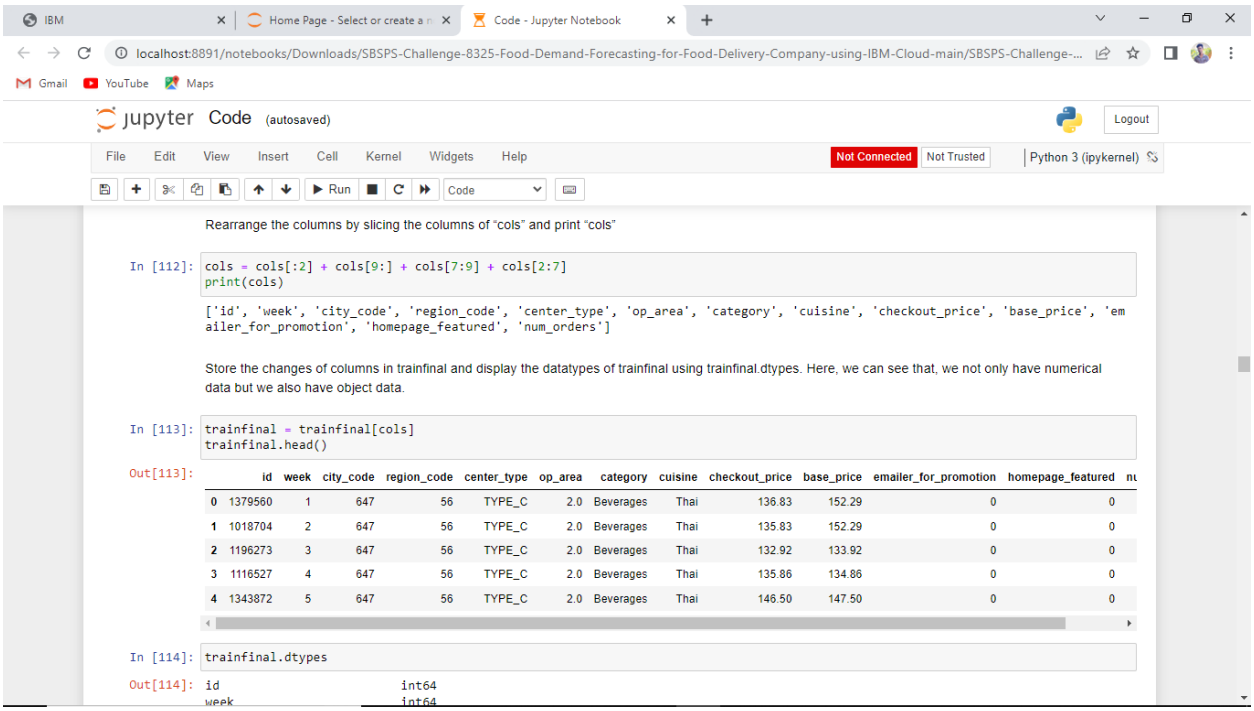


Team Member 3

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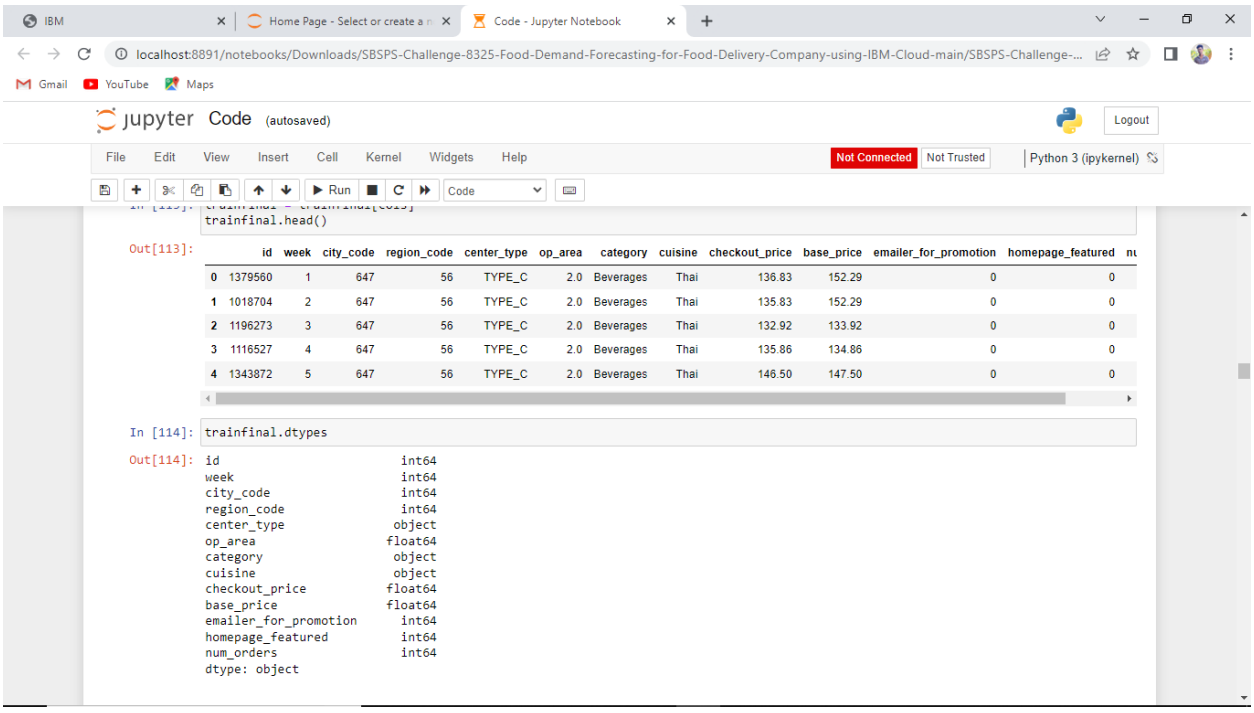
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category object
cuisine object
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base_price float64
emailer_for_promotion int64
homepage_featured int64
num_orders int64
dtype: object