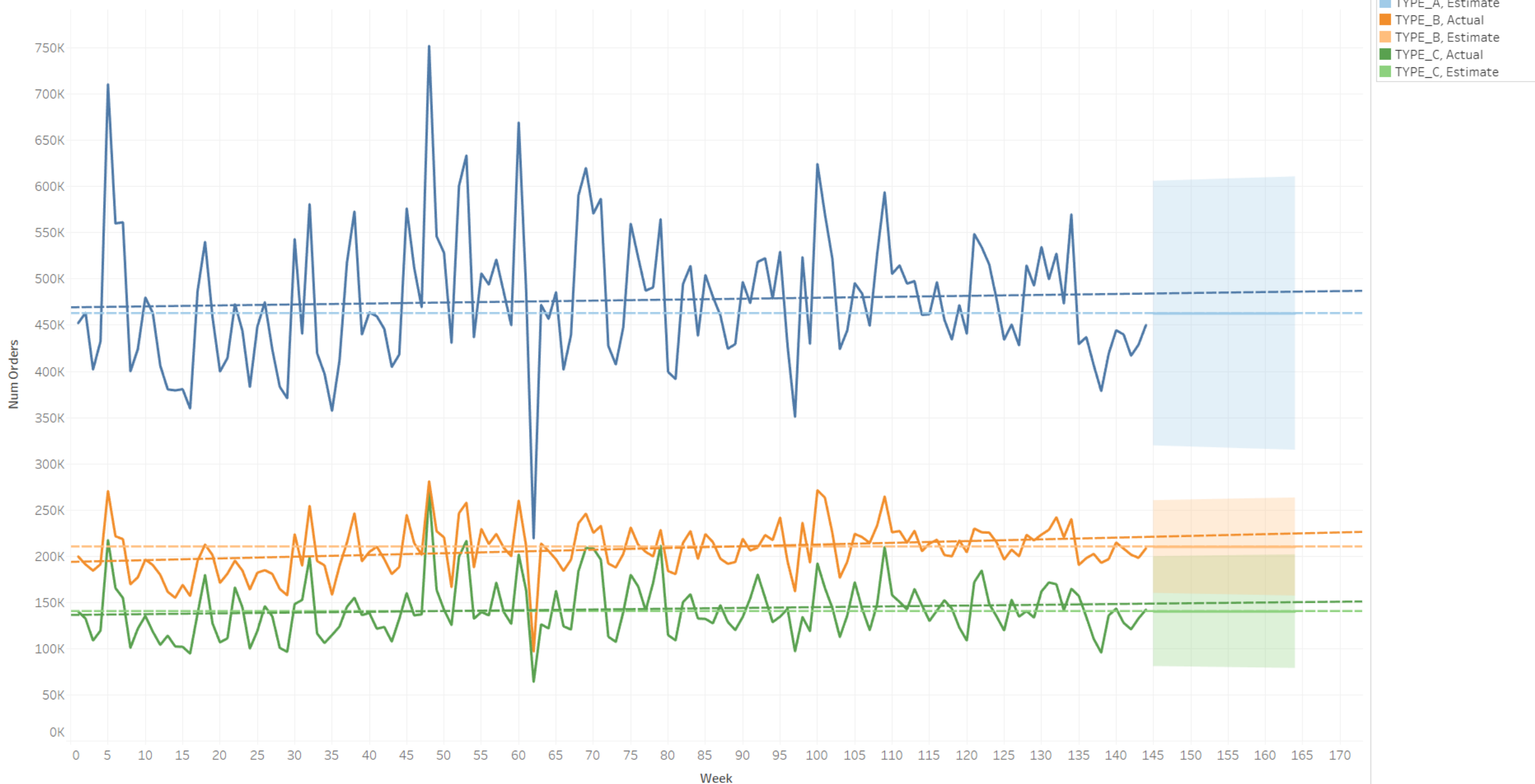


Food Forecasting Analysis

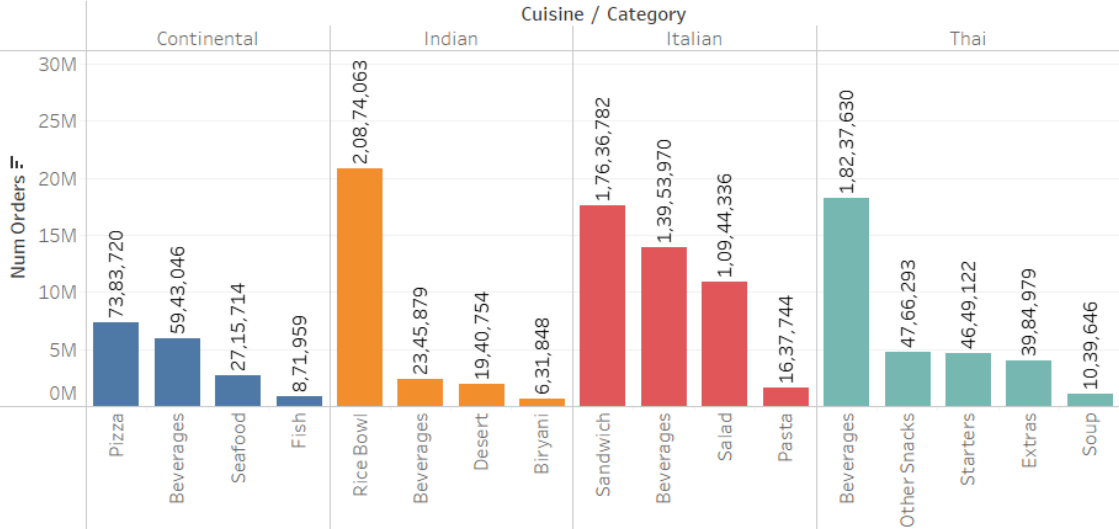
Final Project

Demand Forecasting

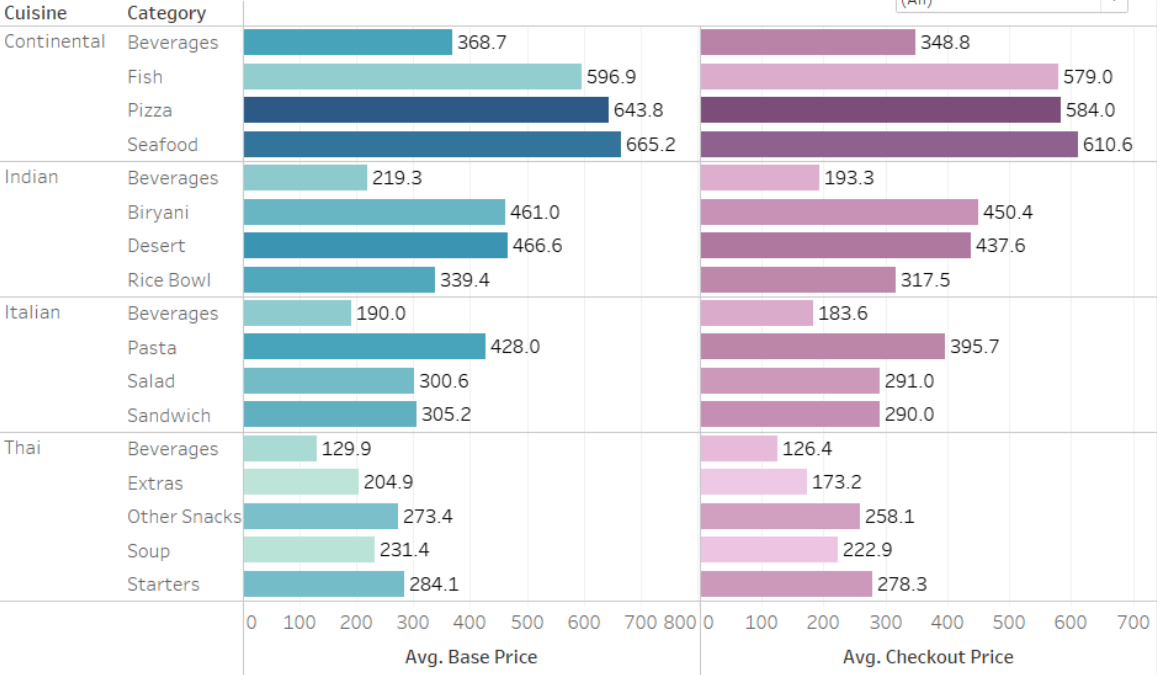


Dashboard

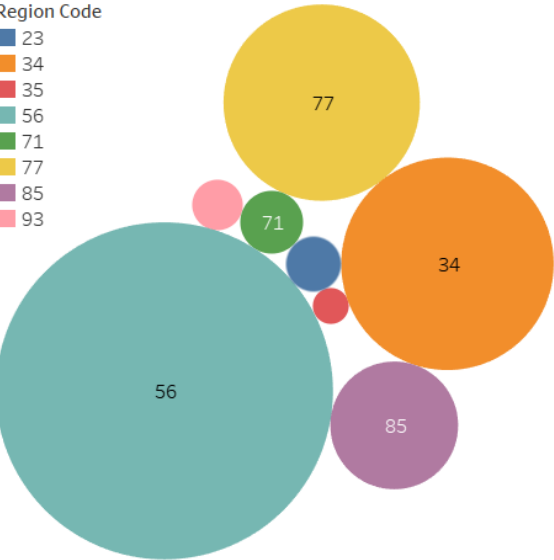
No. of orders per category



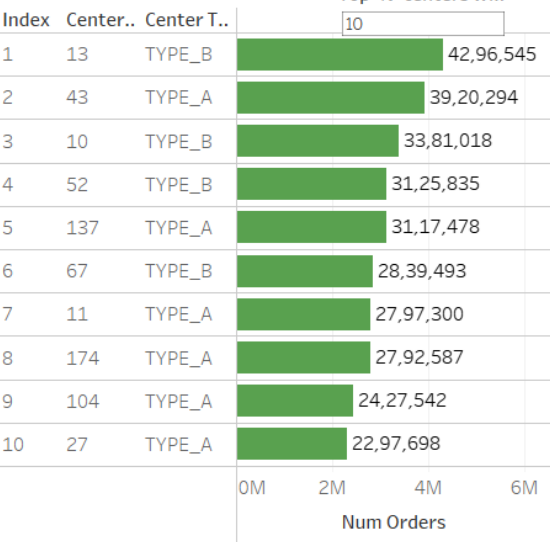
Pricelist



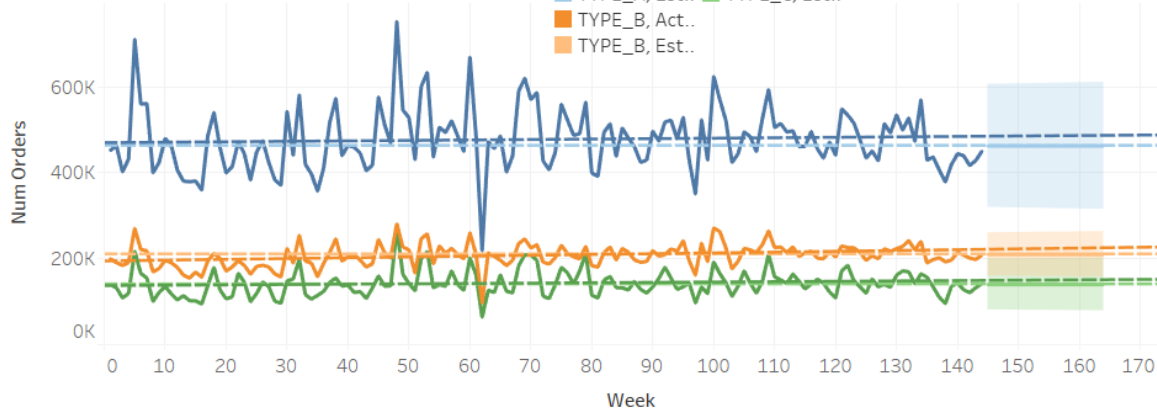
Order by region code



Top 10 centers with maximum demand



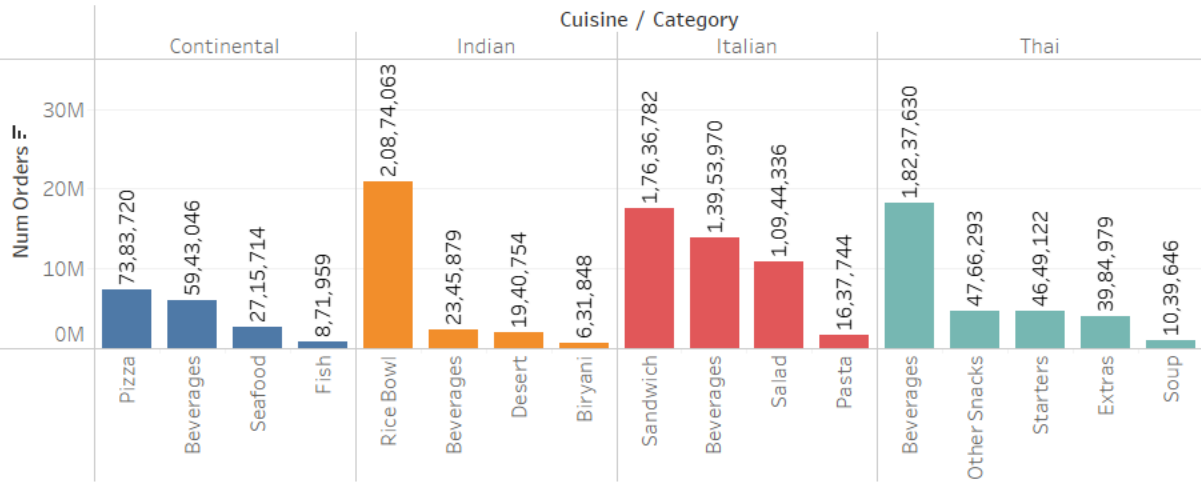
Demand Forecasting



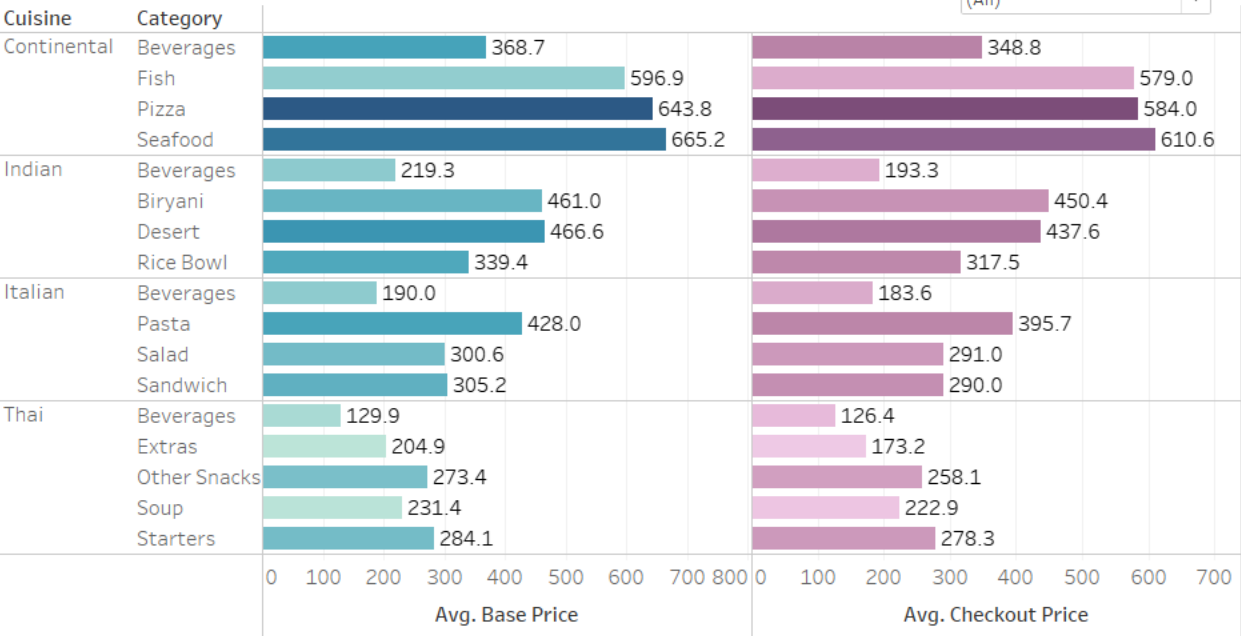
Food Forecasting Analysis: Story

This represents the demand for different categories, cuisines and region. Pricelist is given for each meal type. Demand forecast for each center type is also shown. For center type A, maximum demand is from region code 56. Out of 10 centers with maximum

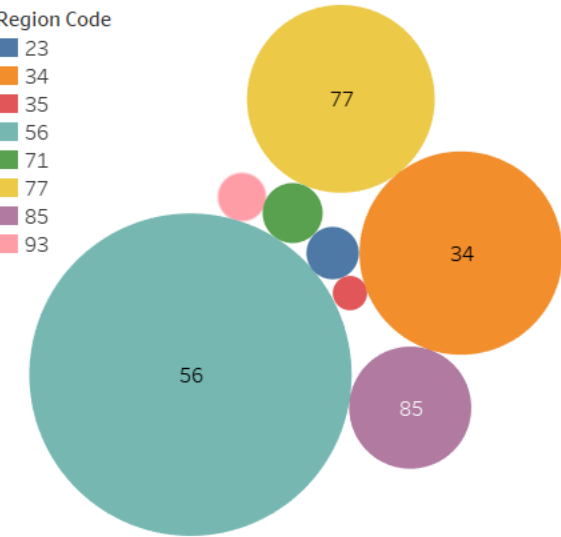
No. of orders per category



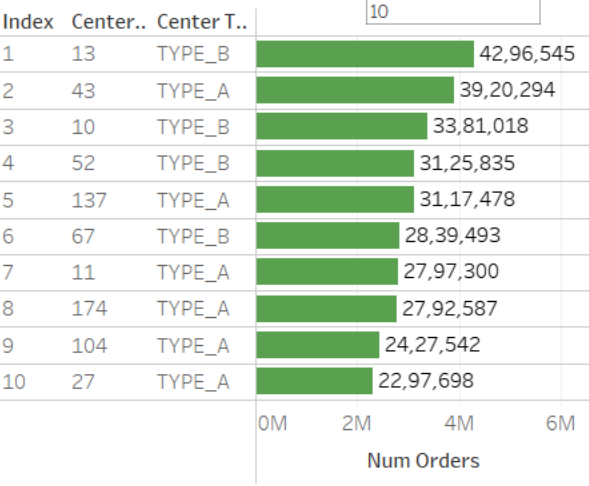
Pricelist



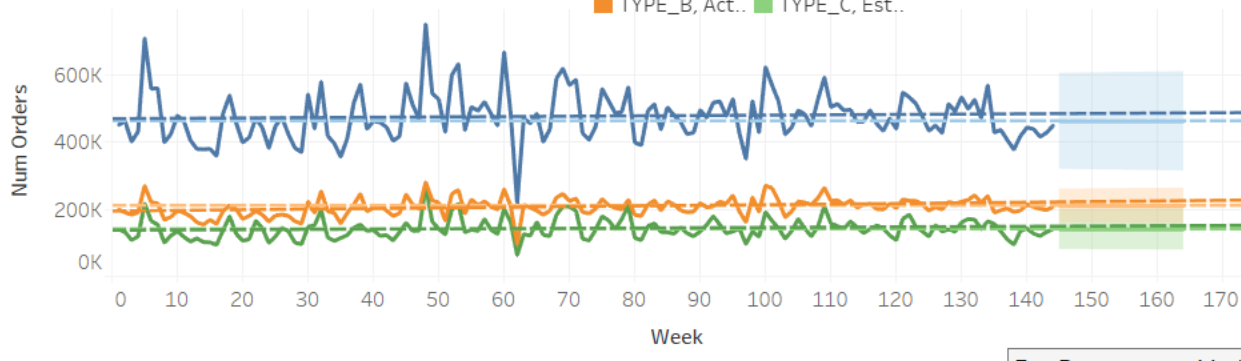
Order by region code



Top 10 centers with maximum demand



Demand Forecasting



Exit Presentation Mode [F7]

low. For center type A, maximum demand is from region code 56. Out of 10 centers with maximum demand, 6 are from Type A. For center type B, there is no any demand from region codes 93, 71, 35, 23. Out of 10 centers with maximum demand, 0 are from Type B.

| Cuisine / Category | Continental | | | | Indian | | | | Italian | | | | Thai | | | | |
|--------------------|-------------|-----------|-----------|----------|-------------|-----------|-----------|----------|-----------|-----------|-----------|----------|-------------|--------------|-----------|-----------|----------|
| | | | | | | | | | | | | | | | | | |
| | Pizza | Beverages | Seafood | Fish | Rice Bowl | Beverages | Desert | Biryani | Sandwich | Beverages | Salad | Pasta | Beverages | Other Snacks | Starters | Extras | Soup |
| Num Orders | 41,78,759 | 36,01,752 | 16,24,714 | 4,68,892 | 1,18,47,850 | 13,10,021 | 10,06,575 | 3,48,112 | 98,44,003 | 82,67,517 | 57,73,622 | 8,93,619 | 1,14,54,567 | 27,21,316 | 26,39,443 | 23,85,158 | 6,12,597 |

Region Code

- 23
- 34
- 35
- 56
- 71
- 77
- 85
- 93

| demand | | | Top 'N' centers wi.. | |
|--------|----------|------------|----------------------|-----------|
| Index | Center.. | Center T.. | | 10 |
| 1 | 13 | TYPE_B | <div></div> | 42,96,545 |
| 2 | 43 | TYPE_A | <div></div> | 39,20,294 |
| 3 | 10 | TYPE_B | <div></div> | 33,81,018 |
| 4 | 52 | TYPE_B | <div></div> | 31,25,835 |
| 5 | 137 | TYPE_A | <div></div> | 31,17,478 |
| 6 | 67 | TYPE_B | <div></div> | 28,39,493 |
| 7 | 11 | TYPE_A | <div></div> | 27,97,300 |
| 8 | 174 | TYPE_A | <div></div> | 27,92,587 |
| 9 | 104 | TYPE_A | <div></div> | 24,27,542 |
| 10 | 27 | TYPE_A | <div></div> | 22,97,698 |

0M

2M

4M

6M

Num Orders

Pricelist

Center Type

TYPE_A

| Cuisine | Category | Avg. Base Price | Avg. Checkout Price |
|-------------|--------------|-----------------|---------------------|
| Continental | Beverages | 368.4 | 348.2 |
| | Fish | 596.7 | 579.4 |
| | Pizza | 643.5 | 583.8 |
| | Seafood | 665.6 | 611.8 |
| Indian | Beverages | 220.4 | 194.3 |
| | Biryani | 460.7 | 450.0 |
| | Desert | 466.1 | 437.2 |
| | Rice Bowl | 338.8 | 315.9 |
| Italian | Beverages | 189.8 | 183.5 |
| | Pasta | 427.5 | 395.2 |
| | Salad | 300.6 | 290.9 |
| | Sandwich | 305.9 | 289.9 |
| Thai | Beverages | 129.5 | 126.1 |
| | Extras | 201.8 | 171.9 |
| | Other Snacks | 273.3 | 258.2 |
| | Soup | 231.8 | 223.4 |
| | Starters | 284.2 | 278.4 |

Demand Forecasting

Center Type, Forecast indicator

- TYPE_A, Actual
- TYPE_A, Estimate

Num Orders

Week

For center type B, there is no any demand from region codes 93, 71, 35, 23. Out of 10 centers with maximum demand, 4 are from Type B. For center type C, Out of 10 centers with m

| Cuisine / Category | Cuisine / Category | | Cuisine / Category | | Cuisine / Category | |
|--------------------|--------------------|-----------|--------------------|-----------|--------------------|--|
| | Continental | Indian | Italian | Thai | | |
| Pizza | 15,85,932 | | | | | |
| Beverages | 8,07,183 | | | | | |
| Seafood | 7,90,897 | | | | | |
| Fish | 3,75,444 | | | | | |
| Rice Bowl | | 55,19,104 | | | | |
| Beverages | | 5,99,999 | | | | |
| Desert | | 5,97,142 | | | | |
| Biryani | | 2,28,273 | | | | |
| Sandwich | | | 37,60,525 | | | |
| Beverages | | | 33,78,667 | | | |
| Salad | | | 22,69,206 | | | |
| Pasta | | | 5,30,987 | | | |
| Beverages | | | | 45,54,511 | | |
| Other Snacks | | | | 17,55,359 | | |
| Starters | | | | 16,95,180 | | |
| Extras | | | | 12,51,120 | | |
| Soup | | | | 2,96,544 | | |

Region Code

- 34
- 56
- 77
- 85

| Region Code | Count |
|-------------|-------|
| 34 | 34 |
| 56 | 56 |
| 77 | 77 |
| 85 | 85 |

| demand | | | Top 'N' centers wi.. | |
|--------|----------|------------|----------------------|-----------|
| Index | Center.. | Center T.. | | 10 |
| 1 | 13 | TYPE_B | <div></div> | 42,96,545 |
| 2 | 43 | TYPE_A | <div></div> | 39,20,294 |
| 3 | 10 | TYPE_B | <div></div> | 33,81,018 |
| 4 | 52 | TYPE_B | <div></div> | 31,25,835 |
| 5 | 137 | TYPE_A | <div></div> | 31,17,478 |
| 6 | 67 | TYPE_B | <div></div> | 28,39,493 |
| 7 | 11 | TYPE_A | <div></div> | 27,97,300 |
| 8 | 174 | TYPE_A | <div></div> | 27,92,587 |
| 9 | 104 | TYPE_A | <div></div> | 24,27,542 |
| 10 | 27 | TYPE_A | <div></div> | 22,97,698 |

0M

2M

4M

6M

Num Orders

| Cuisine | Category | Avg. Base Price | Avg. Checkout Price |
|-------------|--------------|-----------------|---------------------|
| Continental | Beverages | 368.2 | 347.8 |
| | Fish | 597.9 | 580.2 |
| | Pizza | 644.2 | 583.8 |
| | Seafood | 666.1 | 616.6 |
| Indian | Beverages | 223.4 | 197.9 |
| | Biryani | 460.8 | 451.0 |
| | Desert | 467.6 | 438.5 |
| | Rice Bowl | 338.4 | 318.9 |
| Italian | Beverages | 190.5 | 184.0 |
| | Pasta | 426.1 | 395.2 |
| | Salad | 301.1 | 290.8 |
| | Sandwich | 304.8 | 290.1 |
| Thai | Beverages | 130.3 | 126.9 |
| | Extras | 189.5 | 171.5 |
| | Other Snacks | 273.3 | 258.6 |
| | Soup | 231.2 | 222.8 |
| | Starters | 284.2 | 278.6 |

Demand Forecasting

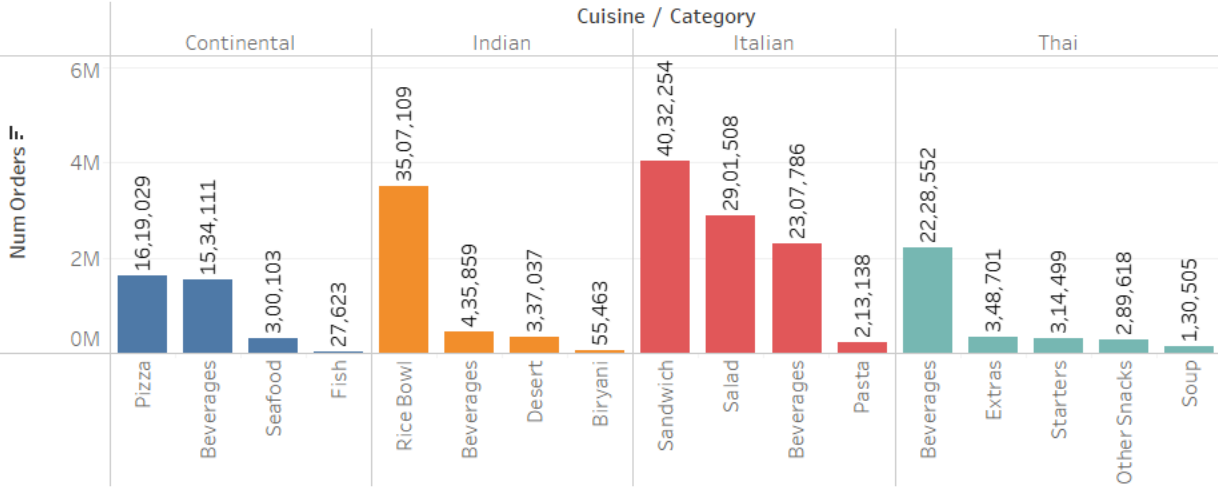
Center Type, Forecast indicator

- TYPE_B, Actual
- TYPE_B, Estimate

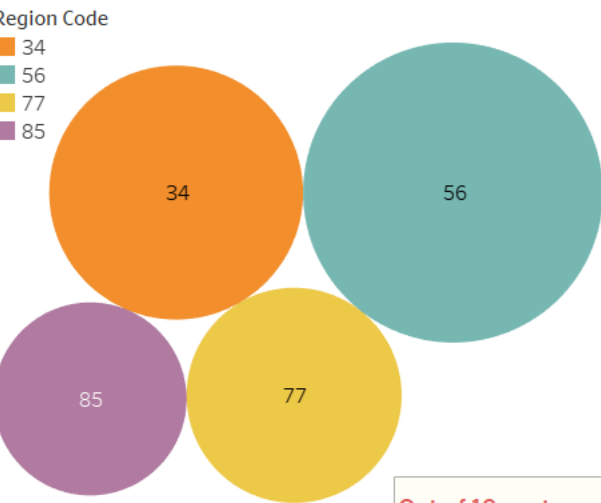
The chart displays the demand forecasting for TYPE_B. The Y-axis represents the number of orders (Num Orders) in thousands (K), ranging from 0K to 200K. The X-axis represents the week, ranging from 0 to 170. The legend indicates two data series: TYPE_B, Actual (solid orange line) and TYPE_B, Estimate (dashed orange line). The actual demand shows significant fluctuations, with a sharp drop around week 60. The estimate is a steady, slightly increasing line. A shaded orange area highlights the forecast period from week 145 to 165.

Food Forecasting Analysis

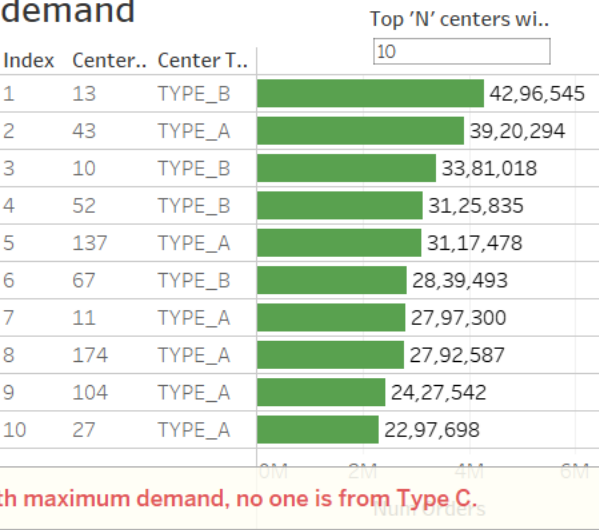
No. of orders per category



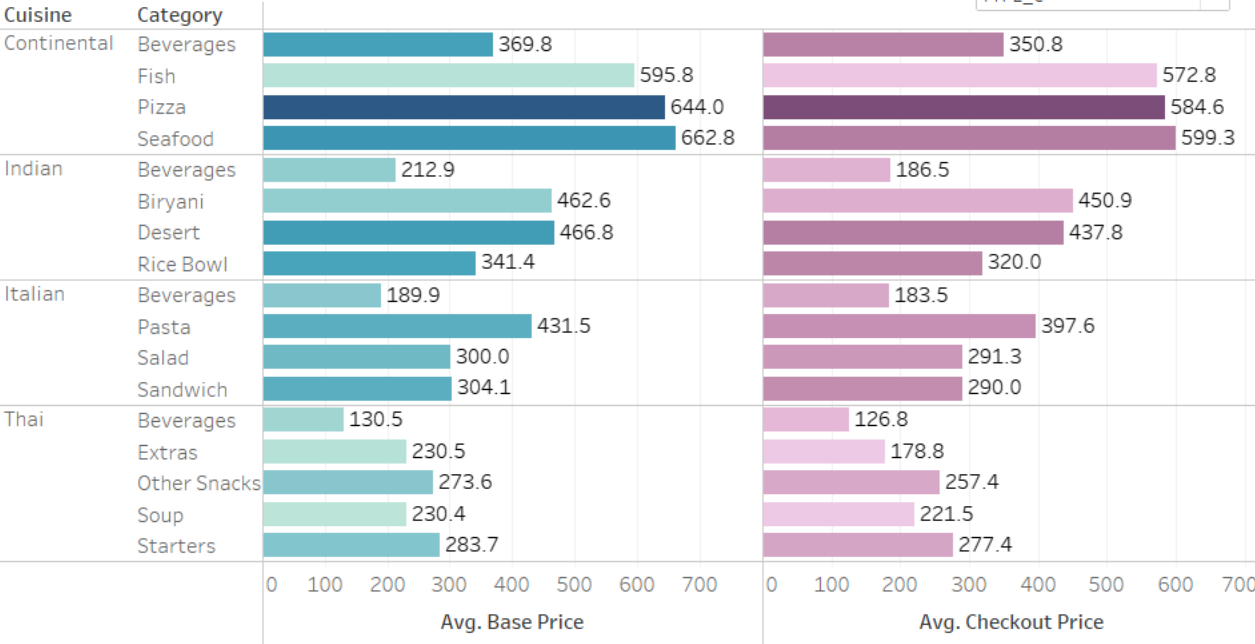
Order by region code



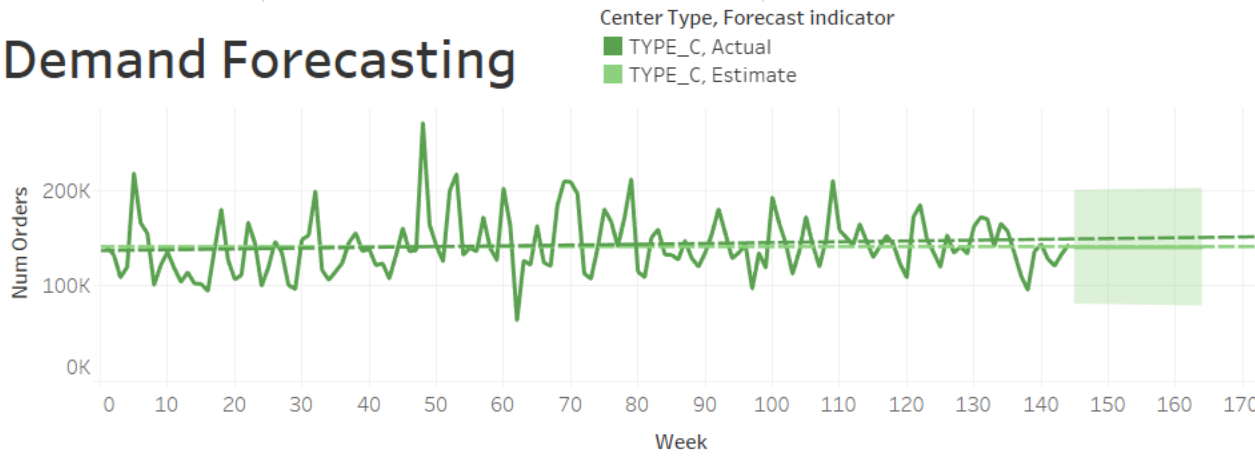
Top 10 centers with maximum demand



Pricelist



Demand Forecasting



Cuisine and Category:

- 1. Demand for Italian cuisine is highest among all, while continental cuisine has least demand.
- 2. In categories, Rice bowl of Indian cuisine has highest demand and Biryani of Indian cuisine has least demand.

Region:

- 3. Demand is mostly concentrated in region with codes 56, 34, 77, 85.
- 4.Regions with codes 93, 71, 35,23 have representation in center type A only.

Maximum Demand:

- 5. Maximum demand comes from the center number 13 of center type B.
- 6. Top 10 centers with maximum demand are from type A and B. Type C centers poorly performing in this sector.

Pricelist:

- 7. Average prices for type C centers are less compared to other centers, still type C centers are fetching less demand.
- 8. Average prices for continental cuisine are highest among all, and they contribute least in demand.

Demand Forecast:

- 9. Demand for center type A is highest and is lowest for type C.
- 10.Forecast estimations of all the three types are expected to be steady in coming future.