



# NLP Interface

Region	Product	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	Total	QTD	YTD
Greater China	iPhone	1,133,428	964,970	1,348,990	1,372,870	894,910	-	-	-	-	-	-	-	4,760,210	4,168,000	-
Western Europe	iPhone	893,098	797,897	771,024	857,892	346,340	-	-	-	-	-	-	-	3,275,260	2,967,000	-
NA	iPhone	592,074	451,700	396,990	384,978	224,000	-	-	-	-	-	-	-	1,989,740	1,771,000	-
Japan	iPhone	433,912	332,048	298,270	244,720	167,000	-	-	-	-	-	-	-	1,345,950	1,348,000	-
South Asia	iPhone	136,200	176,807	158,927	136,760	62,991	-	-	-	-	-	-	-	603,680	467,000	-
APAC	iPhone	103,102	110,167	154,390	81,991	36,990	-	-	-	-	-	-	-	497,660	498,000	-
Korea	iPhone	76,001	76,107	70,947	94,927	37,499	-	-	-	-	-	-	-	355,570	357,000	-
<b>Total</b>	<b>iPhone</b>	<b>3,227,123</b>	<b>2,839,494</b>	<b>2,737,389</b>	<b>2,638,350</b>	<b>1,586,700</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>12,947,860</b>	<b>11,417,000</b>	<b>-</b>

## BENEFITS

- Over 150+ KPI gives a holistic view on sales and finance data
- Easy, intuitive English language interface
- No explicit selection of multiple filters
- Saved searches for efficient querying
- Faster access to notifications on mobile device

## CUSTOMER CHALLENGE

Consolidated view of sales and finance metric through an rich, interactive natural language interface

- Lack an one-stop dashboard that shows KPI across multiple dimensions on a wide granular scale giving a holistic and detailed view of sales and finance trends
- Multiple filters to choose. Need an easy way to access them

## SCOPE

- Integration of sales and finance data
- Custom UI that provides a comprehensive view of key metric
- Build a natural English language interface to search on Cascade dashboard

## SOLUTION

- Integration of sales and finance data on Teradata
- ReactJs, HTML, CSS to build rich, interactive interface
- Reporting layer on Vertica for faster response
- Search option takes English text as input and builds the filter list for querying
- NLP/ML training model learns from variety of search strings
- Integration with mobile IOS App for key notifications

## FEATURES

- In memory caching for faster response
- Auto suggestion based on search history and filler values
- Component based - Easy to port to other dashboards
- Offline reporting through keynote and excel download