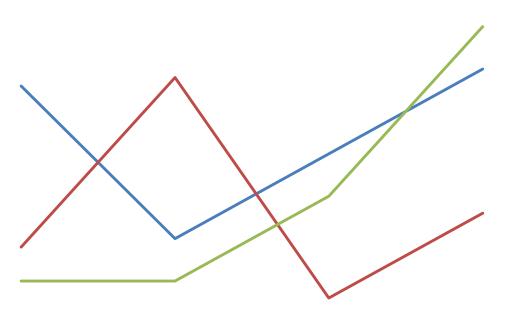
# E-kirana Sales Analysis



Presented by Wasim Alam

## **About**

- **E-kirana** is a self-service supermarket offering a wide variety of food, beverages and household products, organized into sections.
- It also provides online portal for shopping different varieties of products.
- The supermarket has more then 23,000+ outlets across
   182 countries.
- As of 2017, E-kirana the online/offline retail store had the highest market share among all retail stores in the world at over 35% market share.

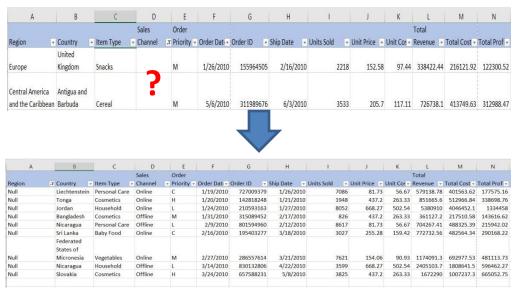
## **Problem Statment**

Due to covid-19 there're many people which fear to step outside the home to purchase the daily essential items, so the demand of market is to increase the online services in this pandemic or in general.

- The data set collected consists past 7 years of data.
- The dataset is having 10,000 records (from 2010-2017), collected from 23,000+ outlets.
- They sale their products across 182 countries and distribute it across countless regions.

Region -	Country	Item Type	Sales	Order							Total		
			- Channel	- Priority -	Order Dati	Order ID	Ship Date	Units Sold 🔽	Unit Price 🔽	Unit Cos -	Revenue -	Total Cost -	Total Profi
	Central												
Sub-Saharan	African												1
Africa	Republic	Vegetables	Online	Н	1/1/2010	506209075	2/4/2010	7369	154.06	90.93	1135268.1	670063.17	465204.97
Asia	China	Cereal	Online	С	1/1/2010	863776719	2/10/2010	9581	205.7	117.11	1970811.7	1122030.9	848780.79
Europe	Sweden	Clothes	Online	Н	1/2/2010	907228076	2/21/2010	7803	109.28	35.84	852711.84	279659.52	573052.32
Sub-Saharan	Equatorial												
Africa	Guinea	Snacks	Offline	M	1/2/2010	335552775	2/12/2010	6378	152.58	97.44	973155.24	621472.32	351682.92
Asia	Mongolia	Cosmetics	Offline	С	1/2/2010	695167052	1/22/2010	4234	437.2	263.33	1851104.8	1114939.2	736165.58
Australia and													
Oceania	Kiribati	Baby Food	Offline	С	1/3/2010	728149211	1/12/2010	4387	255.28	159.42	1119913.4	699375.54	420537.82
Australia and	Solomon	0											
Oceania	Islands	Beverages	Online	С	1/3/2010	994366824	1/23/2010	4095	47.45	31.79	194307.75	130180.05	64127.7
Australia and													1
Oceania	Tonga	Personal Care	Offline	Н	1/3/2010	578549325	2/6/2010	4457	81.73	56.67	364270.61	252578.19	111692.42
Europe	Iceland	Clothes	Offline	M	1/3/2010	898569476	1/5/2010	5531	109.28	35.84	604427.68	198231.04	406196.64
Sub-Saharan	Sao Tome and												
Africa	Principe	Cosmetics	Offline	С	1/3/2010	588900506	2/3/2010	7601	437.2	263.33	3323157.2	2001571.3	1321585.9
Europe	Kosovo	Clothes	Online	L	1/3/2010	416433608	1/16/2010	814	109.28	35.84	88953.92	29173.76	59780.16
100 Pg 2 / 8 1 10	And the second s	The second secon	January S. New								A 440 SERVICE STATE OF SERVICE STATE STATE OF SERVICE STATE STA	000000000000000000000000000000000000000	
Central America													1
and the Caribbea	Haiti	Personal Care	Offline	M	1/3/2010	501643741	2/7/2010	6385	81.73	56.67	521846.05	361837.95	160008.1

Data validation, Data Cleaning & Data profiling are done using Microsoft Excel



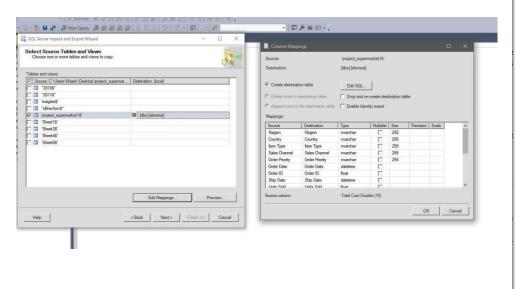


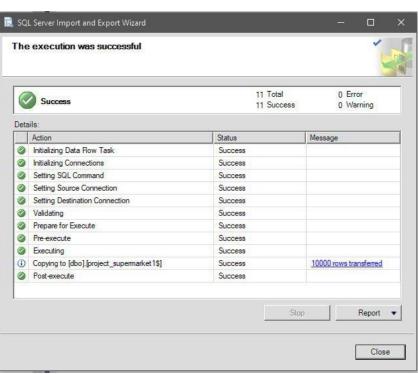
Sub-Saharan Central African Africa Republic Vegetables Online 1/1/2010 506209075 2/4/2010 7369 90.93 1135268.1 670063.17 465 China Cereal Online 1/1/2010 863776719 2/10/2010 9581 205.7 117.11 1970811.7 1122030.9 8487 Europe Sweden Clothes Online 1/2/2010 907228076 2/21/2010 35.84 852711.84 279659.52 5730 Suh-Saharan Equatorial Africa Snacks Offline 1/2/2010 335552775 2/12/2010 6378 152.58 97.44 973155.24 621472.32 3516 Guinea Cosmetics Mongolia Offline 1/2/2010 695167052 1/22/2010 4234 263.33 1851104.8 1114939.2 7361 Australia and Oceania Kiribati 1/3/2010 728149211 1/12/2010 159.42 1119913.4 699375.54 4205 Australia and Solomon Oceania Islands Beverages Online 1/3/2010 994366824 1/23/2010 4095 31.79 194307.75 130180.05 Australia and Oceania Personal Care Offline 1/3/2010 578549325 2/6/2010 4457 56.67 364270.61 252578.19 1116 Tonga Europe Iceland 1/3/2010 1/5/2010 35.84 604427.68 198231.04 4061 Sub-Saharan Sao Tome and Africa Principe 1/3/2010 2/3/2010 7601 Europe Kosovo Clothes Online 1/3/2010 416433608 1/16/2010 814 109.28 35.84 88953.92 29173.76

- Data Cleaning, Data Profiling, Data Transformation & loading to the database:
- For data cleaning & profiling,
   Microsoft excel is used.

#### **Data Transformation**

For data transformation & loading, Microsoft SQL server management studio is used. The filtered data is first extracted from excel sheets then loaded into the database. Some of the columns present in the excel sheet are being made non-null columns in the database.



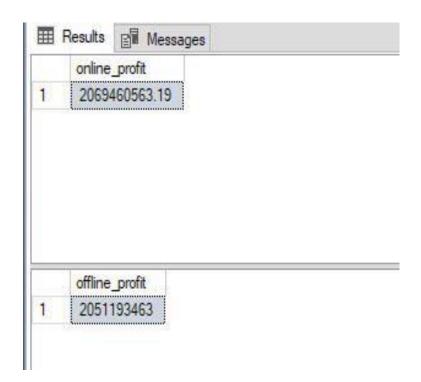


Performing SQL Queries to analyse the data insights.

Query to get the total profit collected by both sales channel

```
select SUM([total profit]) as online_profit
from Sheet
where [Sales Channel]='online';
```

select SUM([total profit]) as offline\_profit
from Sheet
where [Sales Channel]='offline';



Query to get the list of countries where people prefer more offline sale channel for purchasing.

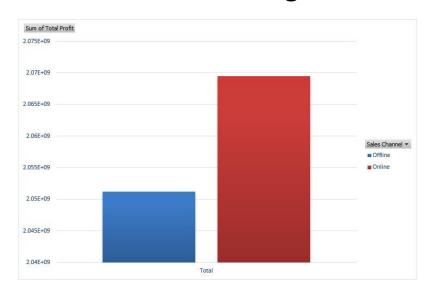
select COUNT(country) as offline\_sales\_by\_country
from Sheet where [Sales Channel]='offline';

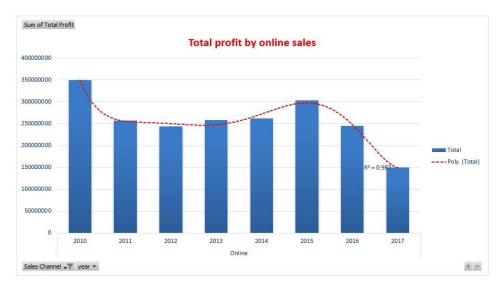


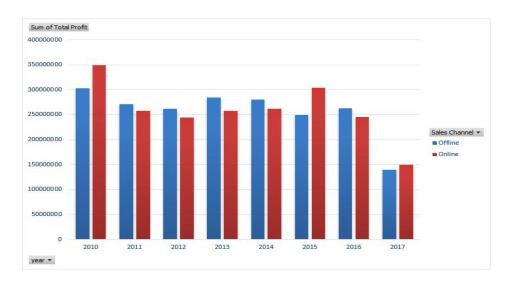
# After hiring the data analyst what changes have been made to increase the sale of online in various countries?

- Need more focus in the countries where the numbers of online sale is less.
- Analyzing the list of countries where the most items sold via offline mode.
- Increase the door to door services for better online shopping experience.

### Visualization & Insights







## **CHANGES NEED TO CONSIDER**

- Give first order free for online first purchase via app.
- Should provide Free delivery on amount of min Rs.1000
- Give additional discounts to your loyal customers on purchasing more.
- Give discount 20% to 50% discount on online customers.
- Provide them with a points card where they can store their discount price and purchase those products at free of cost at the end of the month.

## **ADVANTAGES**

- After the free delivery service, the sales of online will increase.
- Additional offers will attract more numbers of new customers.
- It'll increase the growth of online sales in countries where people are usually use offline mode for shopping.

## **Disadvantages**

- It will increase your expenditure.
- The Profit margin will reduce.

## Conclusion

E-kirana can go for more investment on it's online services. Because, it's the demand of market. Due to pandemic the shopping of goods from online store increased gradually and the demand will continue till this pandemic is over. It'll not just increase the growth of the company but add values among people that the company is stand with them in such worst condition.