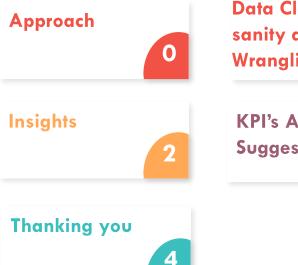
### **ASANA REBEL TASK SOLUTION**

-Ishansh Gupta

Business Data Analyst

## Agenda

Today's discussion Topics are as follows-



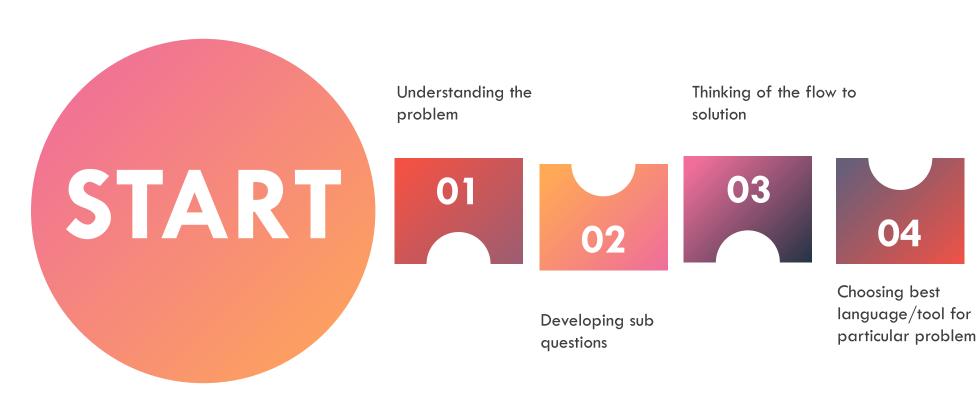




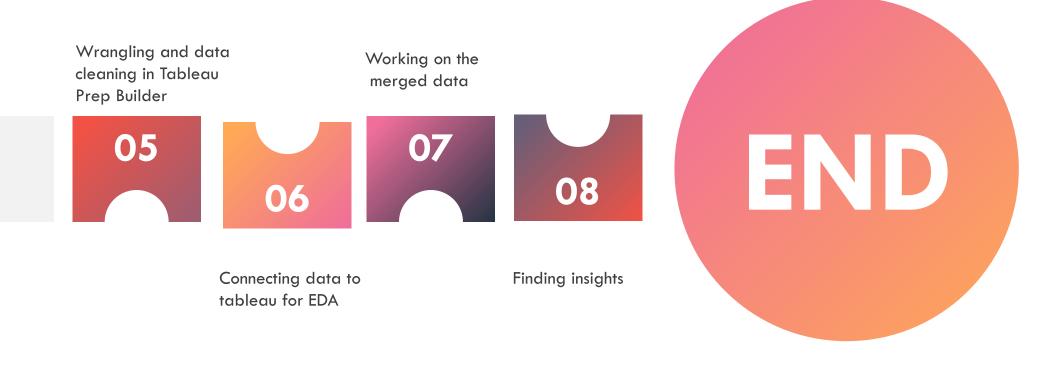


### WorkFlow

Here is the brief overview of how I approached the problem for analysis in the 2 hours

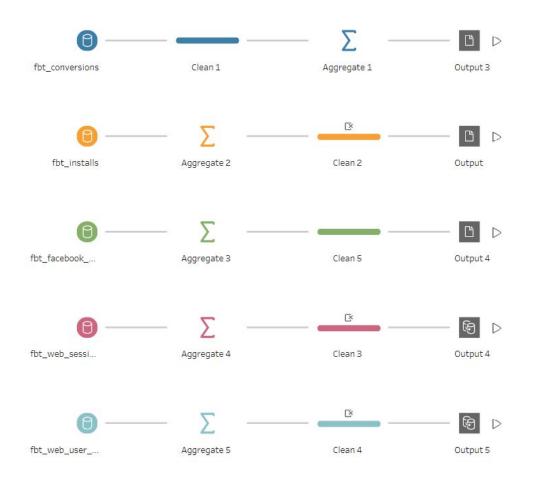


## WorkFlow





IN IMPROVING PERFORMANCE



# Data Cleaning and wrangling in Tableau Prep Builder

- -The data is generally good but had a lot of duplicate data and some missing data.
- -Even after cleaning data properly, here is something interesting I observed (may be obvious for the team though)´-The same user having different subscription id at same time. An error that requires cleaning or is it fine? (have few more examples like this)

sk_user	 purchased_at	subscription_id	revenue
84449245	03/09/2018, 02:49:05 PM	703234	34.7
84449245	03/04/2018, 04:45:11 PM	703234	34.7
84449245	03/17/2020, 06:29:38 PM	1066298	22.35
84449245	03/09/2018, 02:49:05 PM	281563	34.7
84449245	03/09/2018, 02:49:05 PM	1066298	34.7
84449245	03/17/2020, 06:29:38 PM	703234	22.35
84449245	03/04/2018, 04:45:11 PM	1066298	34.7



### FB INSTALL INSIGHTS

		Year of Install Timestamp										
Cam ¾	Network =	2018	2019	2020	2021	Grand F						
Null	Asana Rebel Website	3	8	1,207	45	1,263						
	Apple Search Ads	3	13	213	18	247						
	Organic	15	53	154	12	233						
	Social Media	1	7	136	14	158						
	Facebook & Instagra				64	64						
	Braze			19	2	21						
	Outbrain	2	7			9						
	Google Ads - UAC	3	1			4						
	Taboola		3			3						
	Google Ads - Web			2		2						
	Snapchat		1			1						
	Instagram Organic	1				1						
	In App			1		1						
437803	Facebook & Instagra			1,538	3	1,541						
379581	Facebook & Instagra			8,327		8,327						
339703	Facebook & Instagra			240,784	293	241,077						
280020	Facebook & Instagra			15,873	1,547	17,420						
279755	Facebook & Instagra			189,534	6,537	196,071						
Grand To	tal	27	93	457,771	8,532	466,420						

- -1300 odd users have no campaign id assigned
- 466420 distinct users
- Campaign 339703, 279755 clearly outperforming others

Success Ranking of Campaigns according to this criteria-

- 1-339703
- 2- 279755
- 3-280020
- 4-379581
- 5-437803

Year		-		D-4-
year	OT	ne	na	DIATE
1 Cui	01.		I I CI	$\nu u \cdot c$

		Impressions	Spend	ImpressionIn1euro
Campaig	Campaign Name	2020	2020	2020
279755	ios_campaign_world	39,687,849	155,666	8,193
280020	web_campaign_world	13,079,016	70,992	5,325
339703	android_campaign_world	20,744,707	48,217	14,524
379581	ios_campaign_north_america	4,631,901	63,239	2,290
437803	web_campaign_world_promo	2,942,378	32,365	438

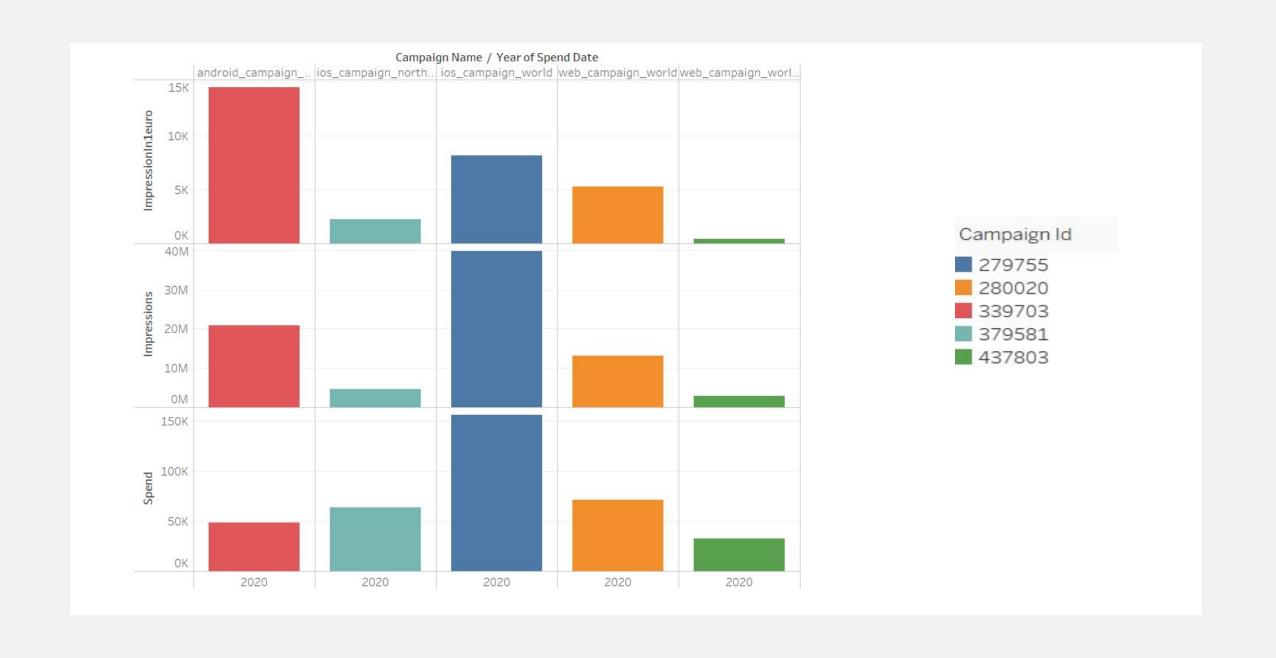
-Insights about impressions and spending per campaign

- In addition a KPI ImpressionIn1Euro to find how many impressions we got in a Euro which shows campaign 339703 was very successful whereas campaign 437803 was the worst performing Success Ranking of Campaigns according to this NEW KPI (ImpressionIn1Euro)'-

1- 339703	
2- 279755	
3- 280020	
4- 379581	

5-437803

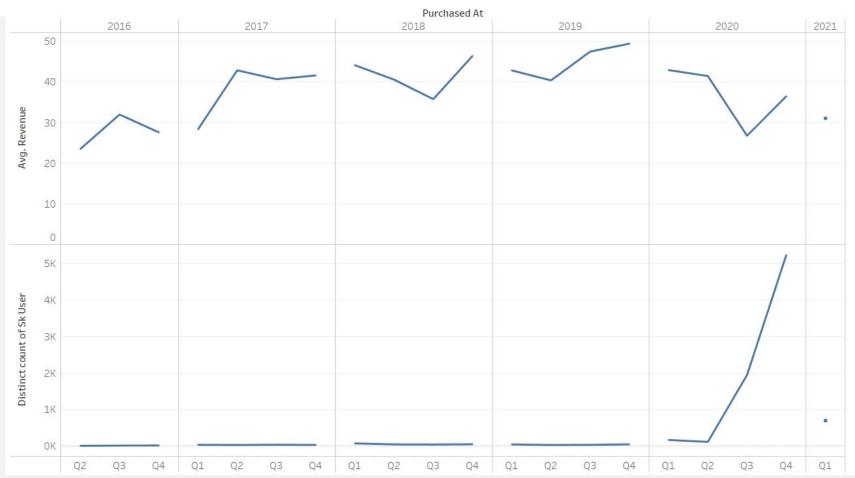
Validates the success of campaign on basis of slide 10



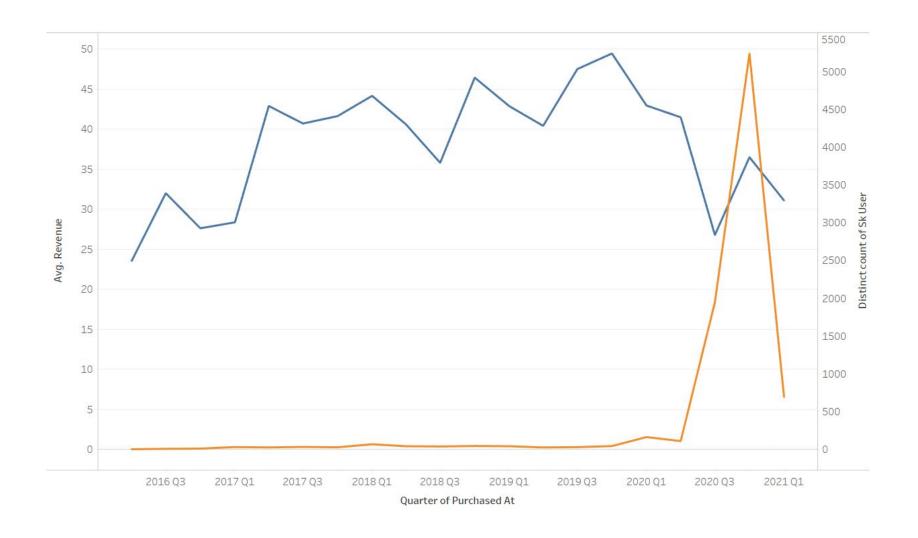
	Year of Purchased At	Ξ.			
Avg. Revenue	2016	29			
	2017	38			
	2018	42			
	2019	45			
	2020	34			
	2021	31			
Distinct count of Sk	2016	21			
User	2017	116			
	2018	189			
	2019	139			
	2020	7,409			
	2021	693			
Avg. Revenue	Total	34			
Distinct count of Sk.	., Total	8,362			

- Average revenue by 1 customer year wise.
- Distinct users per year
- Total avg. revenue per customer and total distinct customers

	Purchased At																			
	2016		2017			2018			2019				2020				2021			
	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Avg. Revenue	24	32	28	28	43	41	42	44	41	36	46	43	40	47	49	43	41	27	36	31
Distinct count of Sk	2	8	11	31	26	33	28	68	42	39	45	42	26	30	44	163	110	1,947	5,237	693



-Quarterly performance





KPI's And Suggestions

### **SUGGESTIONS**







## **SUGGESTIONS**

The following can be implemented

Churn rate to determine how many users stay or leave.

Capture of user session duration by introduction of end time in web user table to find patterns

Retention rate of users.

#### SUGGESTIONS ON WHAT MORE CAN BE DONE

At what time usually people download or click add to personalize and make most of advertisement spending.

**Profit** 

Finding Elite users who bring most revenue and download app often to give them special benefits.

### **SUGGESTIONS**

The following can be implemented

Collaboration with Web developer

Refining database architecture

Introduction of flags

#### DEALING WITH WEB CAMPAIGN ATTRIBUTION DIFFICULTIES

According to the current database architecture, through application layer a flag can be introduced to capture the users who are being redirected to the website after clicking the advertisement (using the state 1 or 0) which can be used for segregation of both for further analysis and to deal with the web campaign attribution difficulties



### Questions?

In case of more clarity kindly feel free to contact me anytime.

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