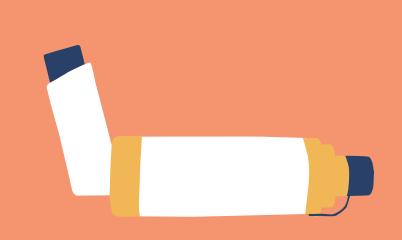
DRUG PERFORMANCE EVALUTION









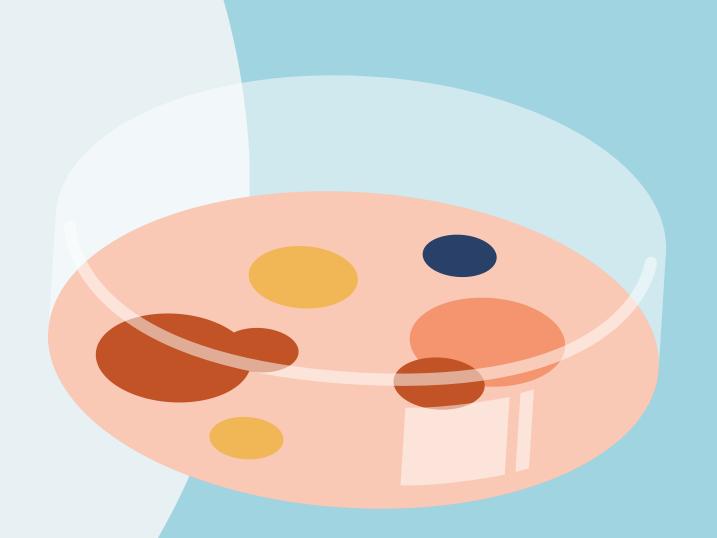
Saurav Bhattacharjee

OBJECTIVE

TITLE-Drug Performance Evaluation

Project Objective

- To evaluate the performance, satisfaction, and pricing of various drugs.
- To identify patterns in user reviews, effectiveness ratings, and side effects.
- To build a visual dashboard for easy interpretation by stakeholders.



TOOLS USED

- MySQL: Data cleaning, transformation & querying
- Power BI: Visualization & interactive dashboard creation





MY SQL

BUSINESS REQUIRMENT



TOP 5 MOST REVIEWED DRUGS

```
SELECT Drug, SUM(Reviews) AS Total_Reviews
FROM drug_clean
GROUP BY Drug
ORDER BY Total_Reviews DESC
LIMIT 5;
```

	Drug	Total_Reviews	
•	Duloxetine	4735.333333333	333
	Pregabalin	3066	
	Lisinopril	2867	
	Amitriptyline	2058.166666666	5665
	Simvastatin	1612	

* AVE

AVERAGE SATISFACTION PRE DRUG FORM

SELECT Form, ROUND(AVG(Satisfaction), 2) AS Avg_Satisfaction

FROM drug_clean

GROUP BY Form

ORDER BY Avg_Satisfaction DESC;

1		
	Form	Avg_Satisfaction
•	Liquid (Drink)	3.43
	Cream	3.43
	Other	3.2
	Tablet	3.12
	Capsule	3.03
	Liquid (Inject)	2.96
Dec	sult 10 V	



DRUG WITH HIGHEST EFFECTIVENESS RATINGS

```
SELECT Drug, ROUND(AVG(Effective), 2) AS Avg_Effectiveness
FROM drug_clean
GROUP BY Drug
ORDER BY Avg_Effectiveness DESC
LIMIT 10;
```

	Drug	Avg_Effectiveness
•	Sulfadiazine	5
	Ceftriaxone In Dextrose, Iso-Os	5
	Cimetidine Hcl	5
	Imipenem-Cilastatin	5
	Cefuroxime Sodium	5
	Hydrocortisone, Pramoxine-Benzyl Alcohol	5

* AVERAGE PRICE BY DRUG TYPE

```
SELECT Type, ROUND(AVG(Price), 2) AS Avg_Price
FROM drug_clean
GROUP BY Type
ORDER BY Avg_Price DESC;
```

Re	sult Grid	III 🙌 Filb	er Rows:	
	Туре	Avg_Price		
•		287.32		
	RX	227.27		
	RX/OTC	61.56		
	OTC	36.76		



AVG REVIEWS, PRICE, SATISFACTION PER DRUG

Re	Result Grid			Content: TA
	Drug	Avg_Reviews	Avg_Price	Avg_Satisfaction
•	Sulfadiazine	4	148	5
	Pramoxine-Zinc Oxide	3	12	5
	Starch, Pramoxine-Mineral Oil-Zinc	2	154	5
	Doxylam-PE-DM-Acetaminophen-GG	1	24.2	5
	Pseudoephedrine-Ibuprofen, Ibuprofen	1	19	5
	Pseudoephed-DM-Acetaminophen, Cpm-Pseudo	3	11	5
Result 17 ×				

*

OFF-LABEL VS ON- LABEL COMPARISON (INDICATION)

```
ROUND(AVG(Effective), 2) AS Avg_Effectiveness,
ROUND(AVG(Satisfaction), 2) AS Avg_Satisfaction

FROM drug_clean

GROUP BY Indication;
```



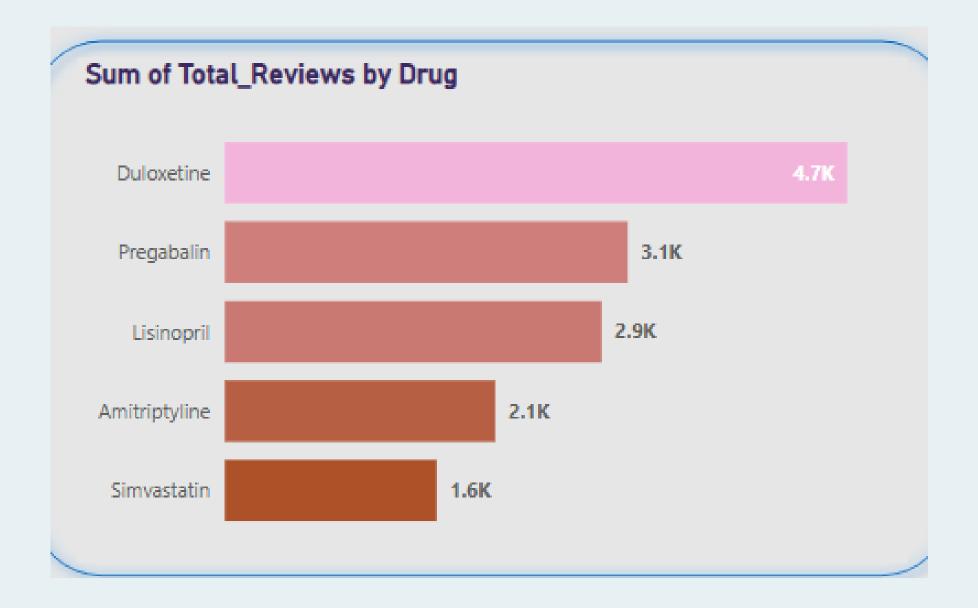


TOP 5 DRUGS WITH HIGHEST PRICE

```
SELECT Drug, MAX(Price) AS Max_Price
FROM drug_clean
GROUP BY Drug
ORDER BY Max_Price DESC
LIMIT 5;
```

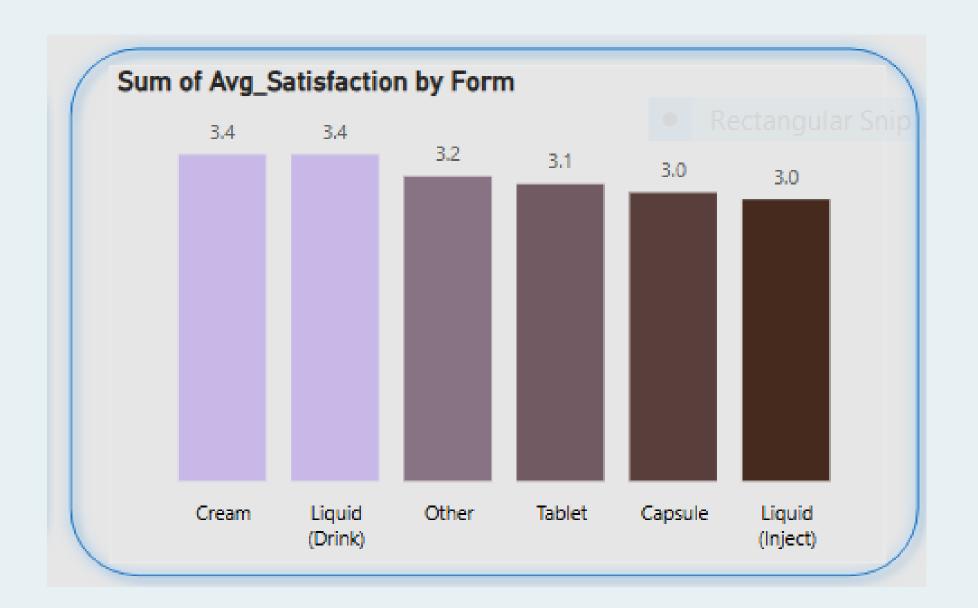
	Drug	Max_Price
•	Paditaxel-Protein Bound	10362.19
	Tigecycline	7991.99
	Hydrocortisone-Iodoquinl-Aloe2	7323.99
	Capecitabine	5829.19
	Nafarelin	3339.99

TOP 5 MOST REVIEWED DRUGS



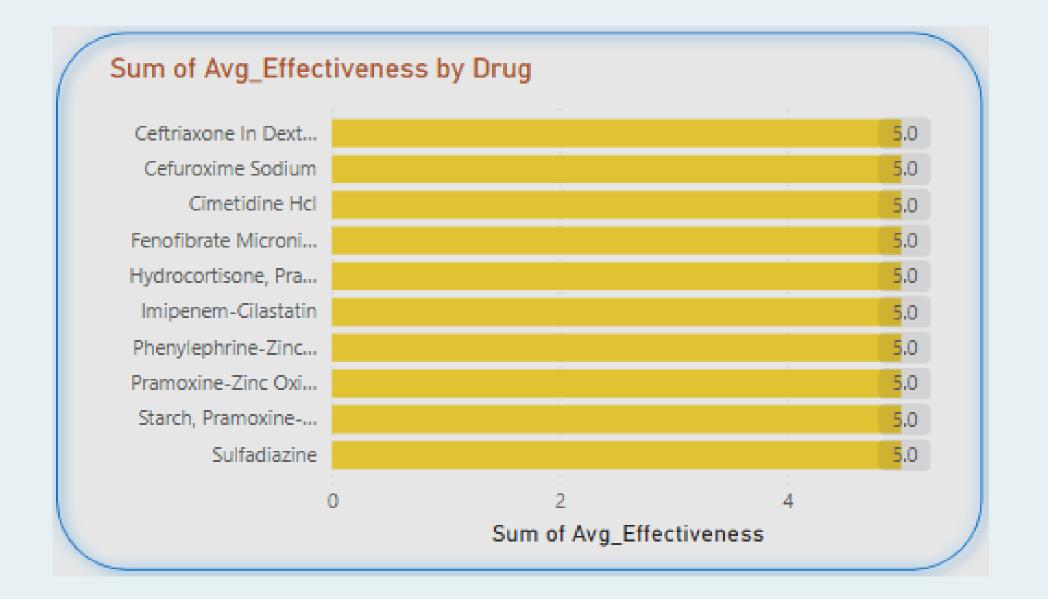


AVERAGE SATISFACTION PRE DRUG FORM



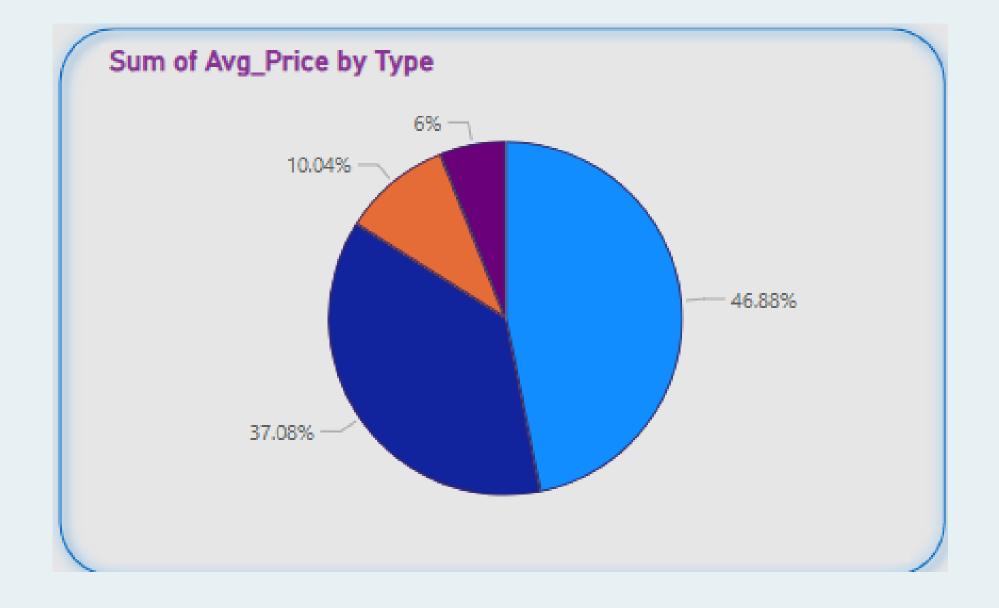


DRUG WITH HIGHEST EFFECTIVENESS RATINGS





AVERAGE PRICE BY DRUG TYPE





POWER BI



AVG REVIEWS, PRICE, SATISFACTION PER DRUG

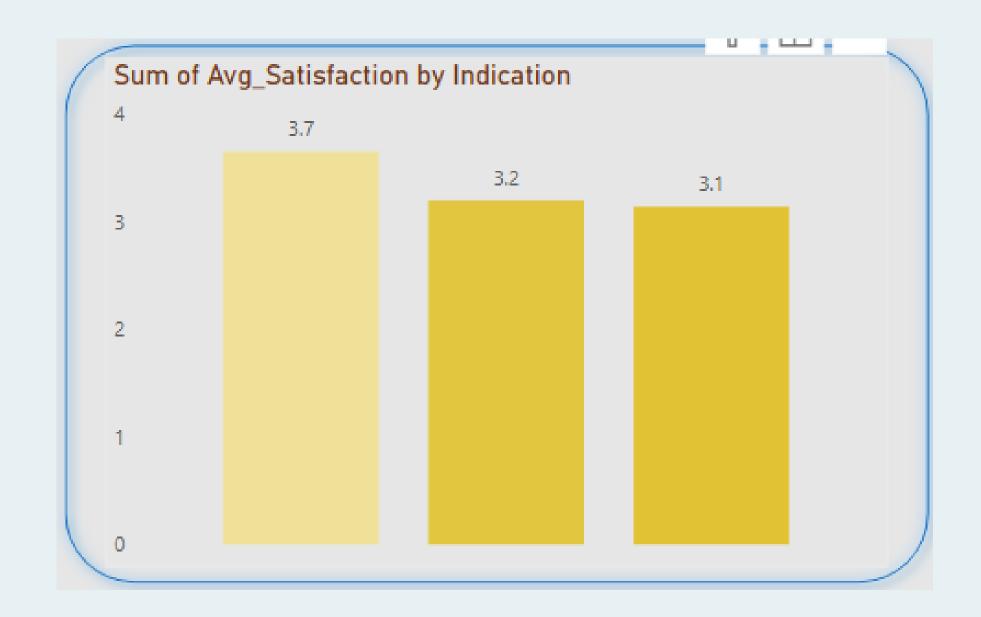
Drug	1.00
Acetaminophen-Pamabrom, Ibuprofen	
Calcium Carbonate-Mag Hydroxid	12.00
Calcium Carbonate-Simethicone	
Doxylam-PE-DM-Acetaminophen-GG	24.20
Goserelin	
Pramoxine-Zinc Oxide	
Pseudoephed-DM-Acetaminophen, Cpm-Pseudoeph-DM-Acetaminophen	
Pseudoephedrine-Ibuprofen, Ibuprofen	19.00
Starch, Pramoxine-Mineral Oil-Zinc	
Sulfadiazine	
Total	55.20



POWER BI

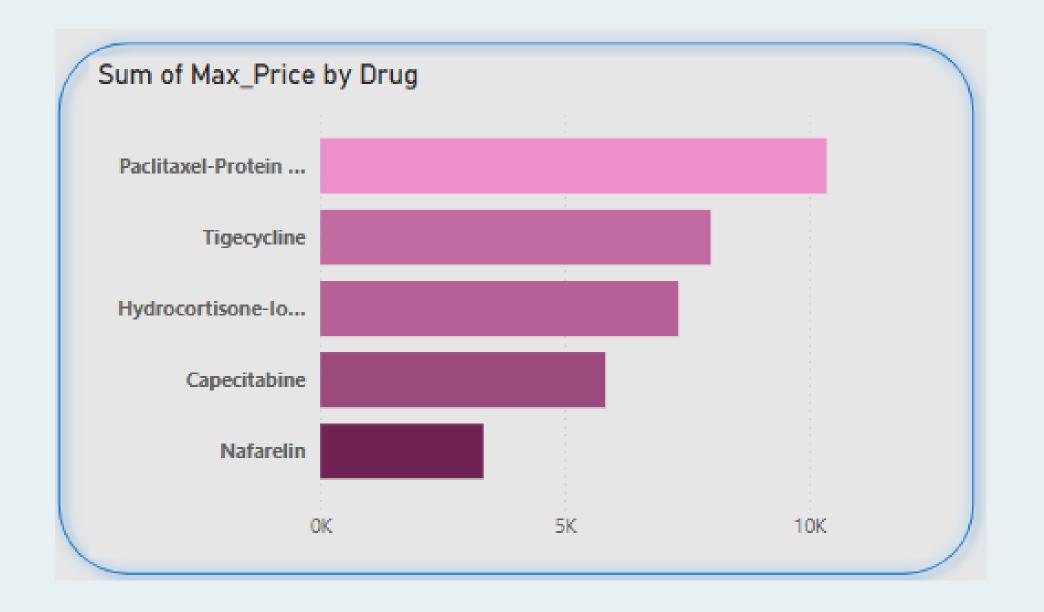


OFF-LABEL VS ON- LABEL COMPARISON (INDICATION)





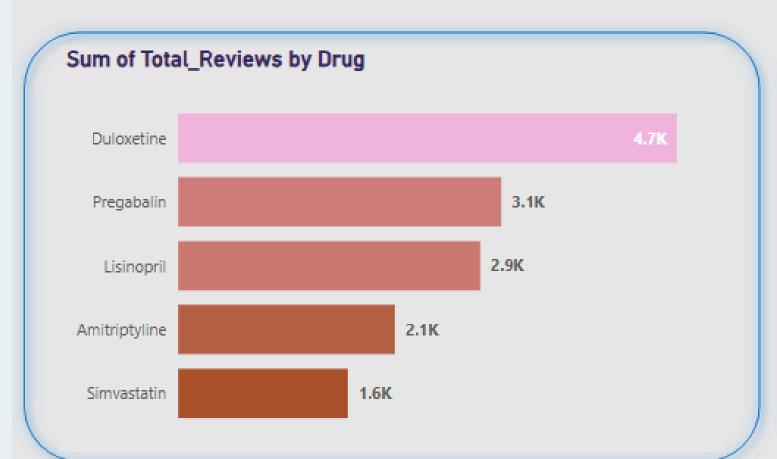
TOP 5 DRUGS WITH HIGHEST PRICE

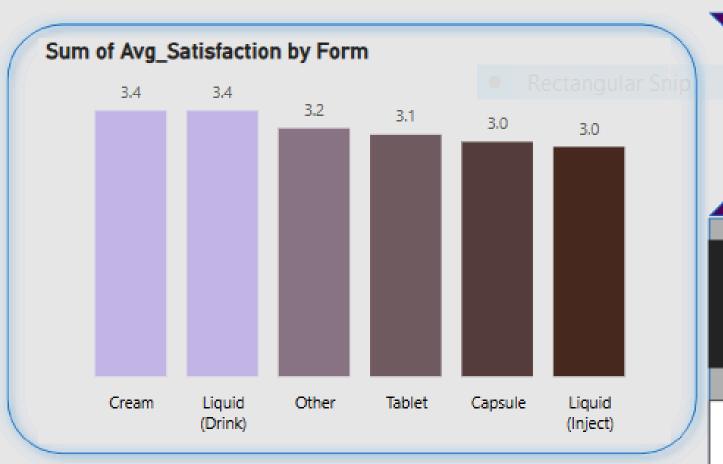


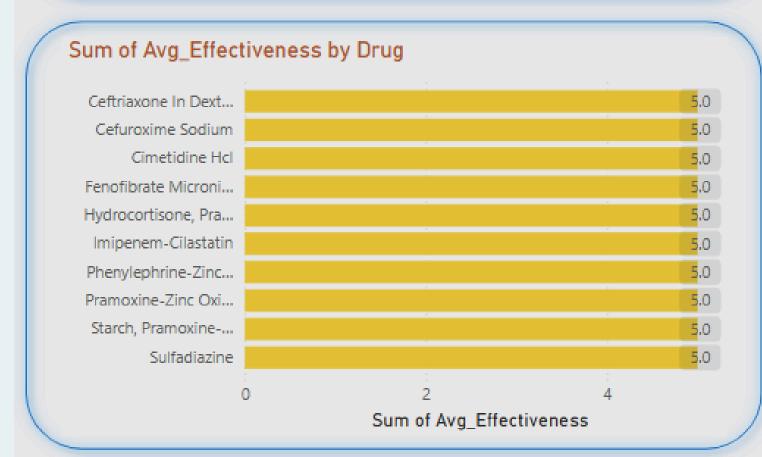


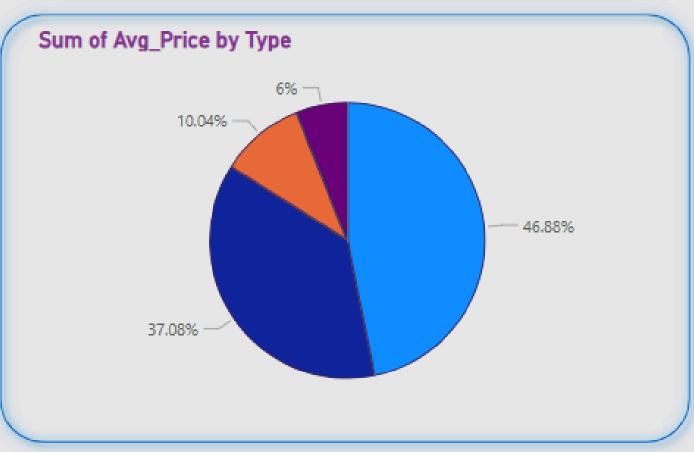


DRUG PERFORMANCE EVALUTION





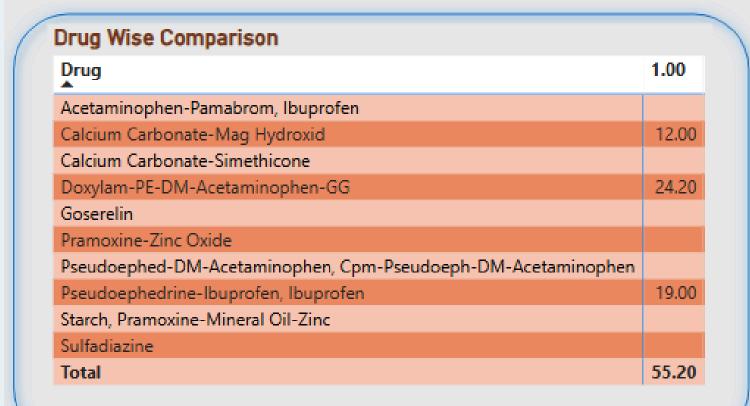




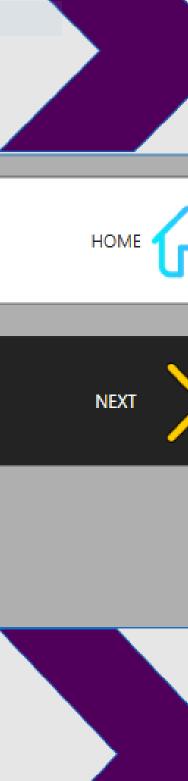


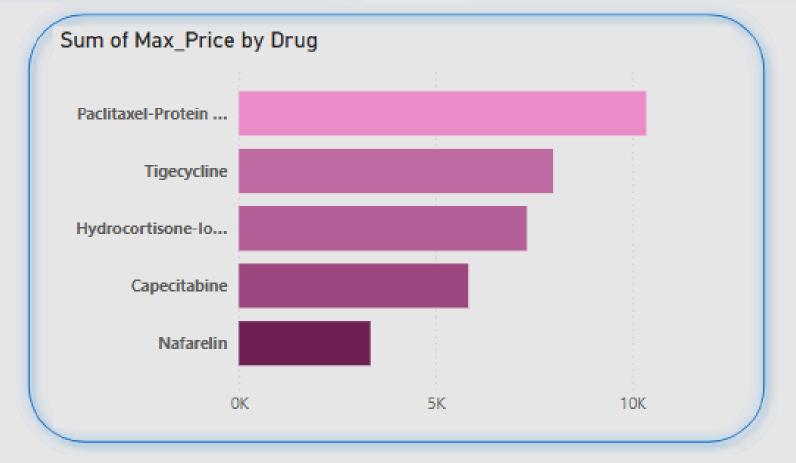


DRUG PERFORMANCE EVALUTION









THANK YOU