



DATA ANALYSIS INTERN PROJECT 1
DATASET- DRUGS SIDE EFFECTS AND MEDICAL CONDITIONS
TOOL USED – MS EXCEL

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DRUGS SIDE EFFECTS AND MEDICAL CONDITION DATASET

The dataset contains the following columns:

drug_name
medical_condition
side_effects
generic_name
drug_classes
brand_names
activity
rx_otc (Prescription/Over the Counter)
pregnancy_category
csa (Controlled Substance Act category)
alcohol (Alcohol interaction warning)
related_drugs
medical_condition_description
rating
no_of_reviews
drug_link
medical_condition_url

The dataset was analysed using excel tool. Firstly the blank and duplicates were removed. The data was converted into a table. Then pivot tables were used for better, easier and smoother analysis. The following points were figured out from the dataset:

Which are the most reviewed drugs(top 5)?

Which are the highest rated medical conditions (top 10)?

Listing the drugs by their ratings and reviews

What is the count of drugs administered in each pregnancy category?

What is the count of drugs administered in each csa type?

Which are the most reviewed medical conditions (top 10)?

Which side effects occur the most(top 10)?

Which are the highest rated drugs(top 10)?

What is the count of drugs regarding Rx/OTC?

What is the drug count of each drug class?

What is the rating of each pregnancy category?

How many drugs contain alcohol?

What are the ratings by Rx/OTC?

What is the total count of reviews in the dataset?

What is the average rating in the dataset?

Which is the highest reviewed drug?

Which are the most occurring medical conditions(top 10)?

What is the count of alcoholic and non alcoholic drugs?

Listing the drug name of each brand.

Which are the most reviewed drugs(top 5)?

[illegible]

Which are the highest rated medical conditions (top 10)?

[illegible]

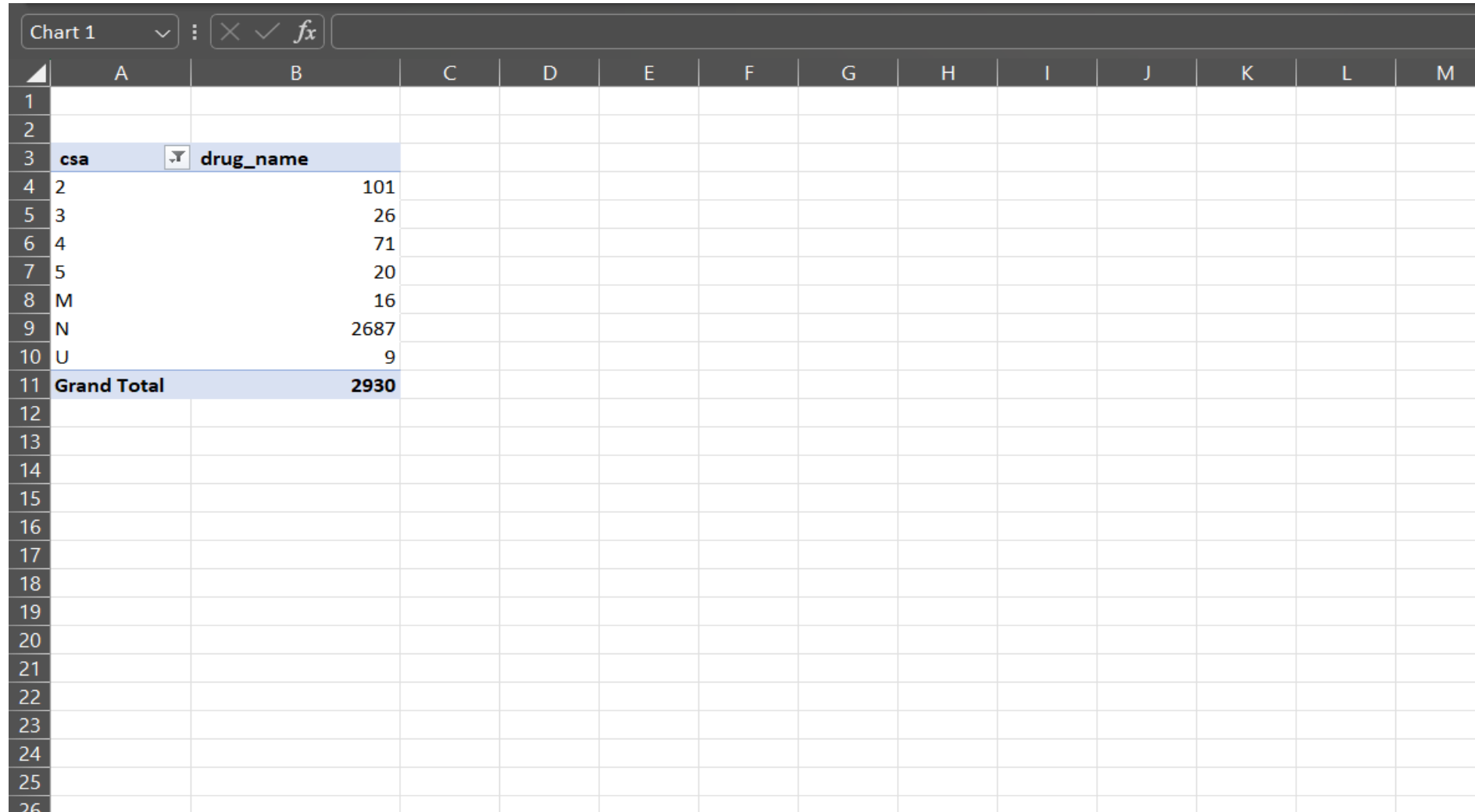
Listing all the drugs by their ratings and reviews

[illegible]

What is the count of drugs administered in each pregnancy category?

[illegible]

What is the count of drugs administered in each csa type?



The screenshot shows a PivotTable in Excel. The PivotTable is located in the range B3:M11. The PivotTable fields are 'csa' and 'drug_name'. The PivotTable shows the count of drugs administered for each csa type. The data is as follows:

csa	drug_name
2	101
3	26
4	71
5	20
M	16
N	2687
U	9
Grand Total	2930

Which are the most reviewed medical conditions (top 10)?

[illegible]

Which side effects occur the most(top 10)?

B3	side_effects count
1	
2	
3	side_effects
4	2021 Sanofi announced it will not pursue the development of MRT5500 and will instead focus on the final development stages of its recombinant COVID-19 vaccine in conjunction with GSK. Initial data from a Phase 1/2 study showed positive interim results with neutralizing antibody seroconversion in 91%
5	hives ; difficult breathing; swelling of your face, lips, tongue, or throat.
6	hives ; difficult breathing; swelling of your face, lips, tongue, or throat. Common side effects may include temporary hair loss (especially in children).
7	hives ; difficult breathing; swelling of your face, lips, tongue, or throat. Less serious side effects may be more likely, and you may have none at all.
8	hives ; difficult breathing; swelling of your face, lips, tongue, or throat. Less serious side effects may include: stinging; rash; or skin irritation.
9	hives ; difficult breathing; swelling of your face, lips, tongue, or throat. This medicine may cause serious side effects. Stop using this medicine and call your doctor at once if you have: bone pain, muscle weakness; confusion, changes in your mental state; seizure (convulsions); or pale skin, feeling light-headed.
10	hives ; difficult breathing; swelling of your face, lips, tongue, or throat. This medicine may cause serious side effects. Stop using this medicine and call your doctor at once if you have: redness or swelling of the treated area; increased pain; or severe burning or skin irritation such as a rash, itching, pain, or
11	hives ; difficulty breathing; swelling of your face, lips, tongue, or throat. Less serious side effects may occur, and you may have none at all.
12	hives ; difficulty breathing; swelling of your face, lips, tongue, or throat. This medicine may cause serious side effects. Stop using this medicine and call your doctor at once if you have: nervousness , dizziness , or sleeplessness ; chest pain, fast or uneven heart rate; little or no urinating; dangerously high blood pressure; or
13	hives ; difficulty breathing; swelling of your face, lips, tongue, or throat. Wash the skin and get medical attention right away if you have severe burning, pain, swelling, or blistering of the skin where you applied this medicine. This medicine may cause serious side effects. Stop using this medicine and call your doctor at once if you have:
14	redness, warmth, swelling, itching, stinging, burning, or irritation of treated skin.
15	Grand Total
16	86
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	

Which are the highest rated drugs(top 10)?

[illegible]

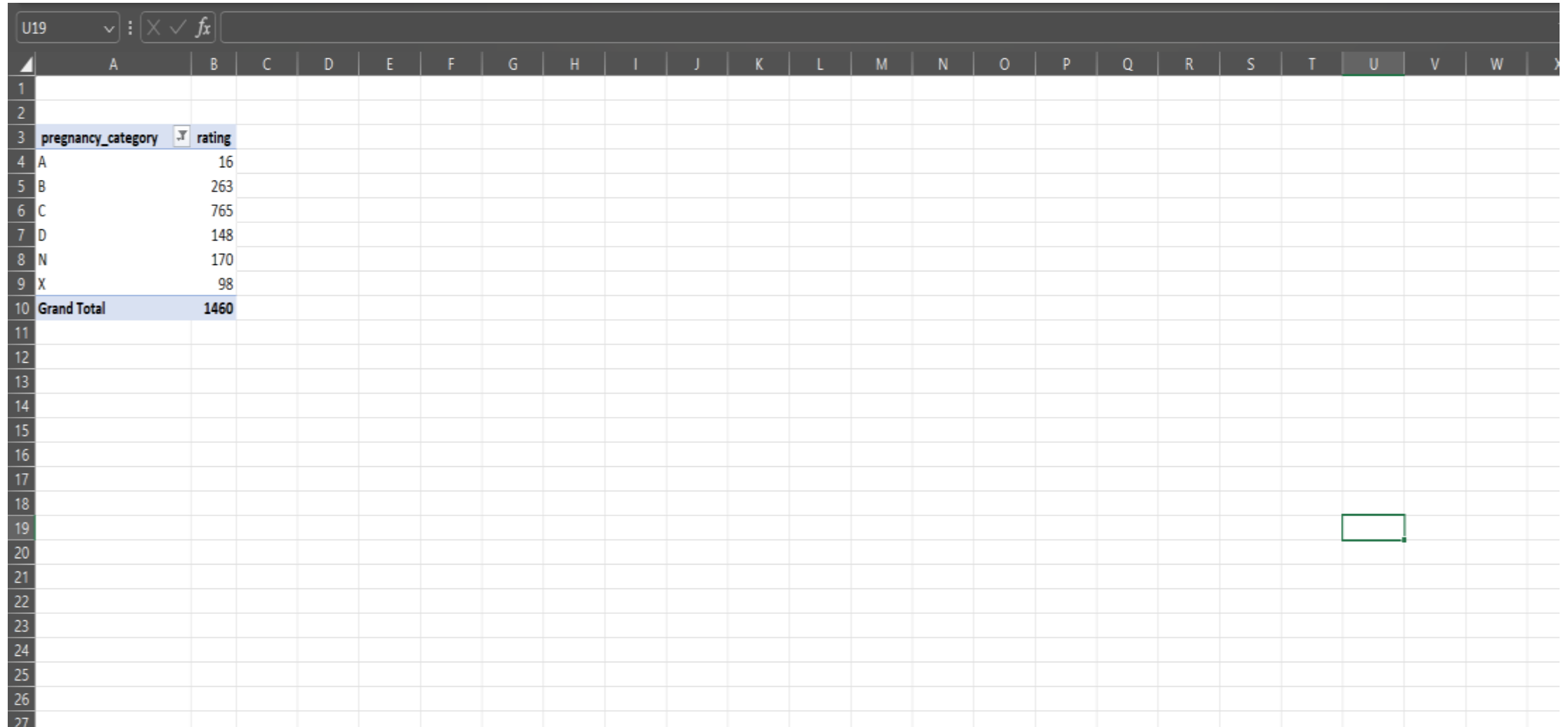
What is the count of drugs regarding Rx/OTC?

D34		
	A	B
2		
3	Rx/OTC	drug_name
4	and efficacy against moderate-to-severe COVID-19 was 84%. Efficacy against any severity of the Delta variant of COVID-19 was 79%. The SCB-2019 antigen is combined with CpG 1018 advanced adjuvant and aluminum hydroxide (alum). Sputnik V (Gam-COVID-Vac) Vaccine platform: Non-Repli	34
5	e):b();h(3)}	
6	OTC	328
7	Rx	1997
8	Rx/OTC	604
9	Grand Total	2963
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		

What is the drug count of each drug class?

G26							
	A	B	C	D	E	F	G
1							
2							
3	drug_class	drug count					
4	Antihistamines	55					
5	Laxatives	53					
6	Miscellaneous topical agents	56					
7	Nonsteroidal anti-inflammatory drugs	70					
8	Topical acne agents	88					
9	Topical anesthetics	54					
10	Topical rubefacient	56					
11	Topical steroids	94					
12	Upper respiratory combinations	245					
13	miscellaneous	83					
14	Grand Total	854					
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							

What is the rating of each pregnancy category?



The image shows an Excel spreadsheet with a table of pregnancy categories and their ratings. The table is located in columns A and B, rows 3 through 10. The categories are A, B, C, D, N, and X, with a 'Grand Total' row. The ratings are 16, 263, 765, 148, 170, and 98 respectively. The 'Grand Total' is 1460. The spreadsheet interface includes a formula bar at the top and a grid of columns (A-W) and rows (1-27).

pregnancy_category	rating
A	16
B	263
C	765
D	148
N	170
X	98
Grand Total	1460

How many drugs contain alcohol?

[illegible]

What are the ratings by Rx/OTC?

[illegible]

What is the count of each generic name?

[illegible]

What is the total count of reviews in the dataset?

(*a connecting card is made using shapes containing the information)

[illegible]

What is the average rating in the dataset?

(*a connecting card is made using shapes containing the information)

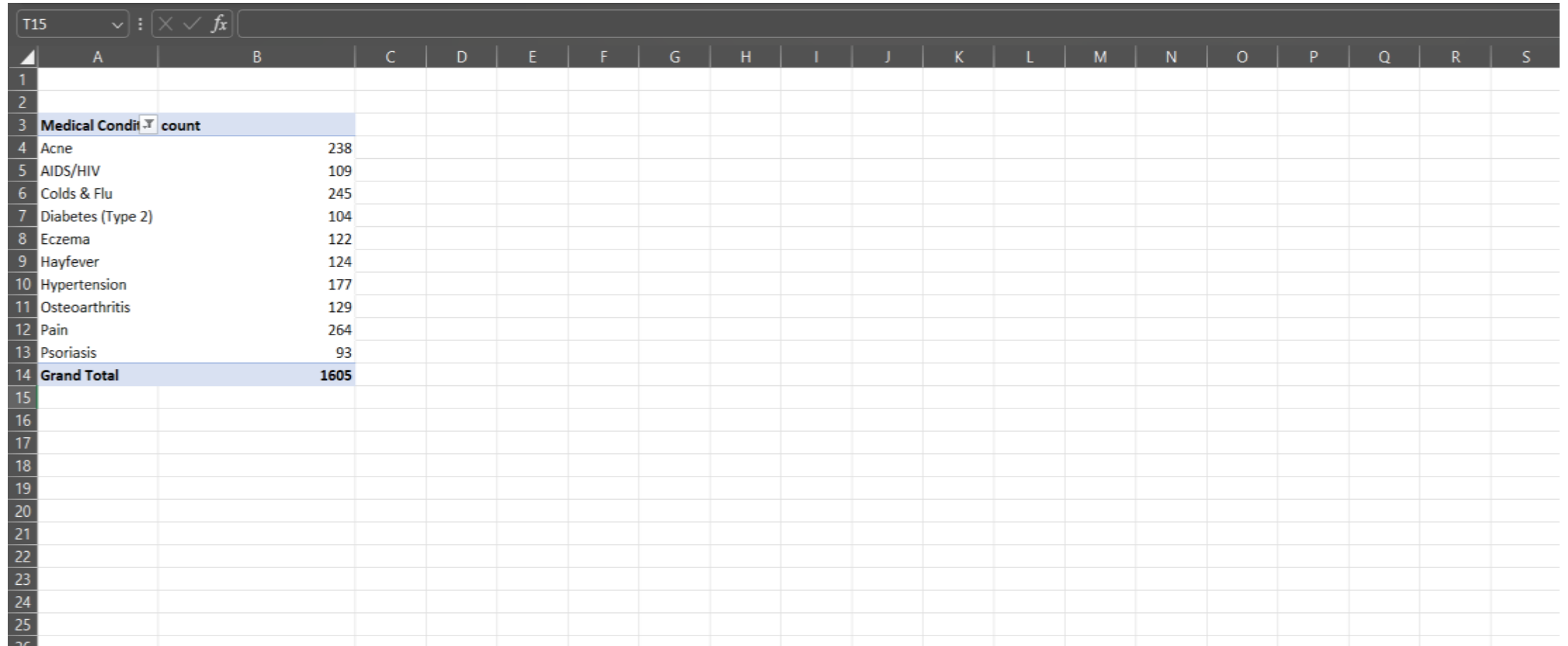
[illegible]

Which is the highest reviewed drug?

(*a connecting card is made using shapes containing the information)

[illegible]

Which are the most occurring medical conditions(top 10)?



The image shows an Excel spreadsheet with a table of medical conditions and their counts. The table is located in the range A3:B14. The first column (A) lists the medical conditions, and the second column (B) lists their corresponding counts. The rows are numbered 1 through 26 on the left. The formula bar at the top shows 'T15' and a function icon.

Medical Condition	count
Acne	238
AIDS/HIV	109
Colds & Flu	245
Diabetes (Type 2)	104
Eczema	122
Hayfever	124
Hypertension	177
Osteoarthritis	129
Pain	264
Psoriasis	93
Grand Total	1605

What is the count of alcoholic and non alcoholic drugs?

[illegible]

Listing the drug name of each brand.

A3	Drugs of Each Brand
1	
2	
3	Drugs of Each Brand
4	▢ Zyprexa Zydys
5	ZYPREXA
6	▢ Zyprexa
7	ZYPREXA Zydys
8	▢ Zypitmag
9	Livalo
10	▢ Zyfel
11	Hycet, Lortab, Medically reviewed, by Drugs.com. Last updated on Sep 16, 2022., , , Uses , Before taking , Warnings , Side effects , Overdose,
12	▢ Zumandimine
13	Gianvi, Jasmie, Lo-Zumandimine, Loryna, Nikki, Ocella, Syeda, Vestura, Yasmin 28, YAZ, Zarah, Zumandimine
14	▢ Z-Sleep
15	Allermax, Benadryl, Compoz Nighttime Sleep Aid, Diphedryl, Dytuss, Nytol QuickCaps, Scot-Tussin Allergy Relief Formula, Siladryl Allergy, Simply Sleep, Sleepinal, Sominex, Twilite, Unisom Sleep Gels, Valu-Dryl, Vanamine PD, Z-Sleep, ZzzQuil , Medically reviewed, by Drugs.com on Sep 19, 2022. Written by , Cerner Multum, ., , , U
16	▢ Zostrix Sports
17	Capsagel Extra Strength, Capzasin, Capzasin-HP, Capzasin-P, Castiva Warming, Theragen HP, Trixaicin HP, Zostrix, Zostrix Arthritis Pain Relief, Zostrix Diabetic Foot Pain, Zostrix Foot Pain Relief, Zostrix HP, Zostrix Sports
18	▢ Zostrix Diabetic Foot Pain
19	Capsagel Extra Strength, Capzasin, Capzasin-HP, Capzasin-P, Castiva Warming, Theragen HP, Trixaicin HP, Zostrix, Zostrix Arthritis Pain Relief, Zostrix Diabetic Foot Pain, Zostrix Foot Pain Relief, Zostrix HP, Zostrix Sports
20	▢ Zostrix
21	Capsin, Capzasin-HP, Castiva Warming, Menthaic Arthritis Cream with Capsaicin, Qutenza, Sloan's Liniment, Zostrix
22	▢ zopiclone
23	Lyzop, Ziclone, Zolinox, Zolium, Zopicon, Zopitran and more
24	▢ zonisamide
25	Zonegran, Zonisade
26	▢ Zonalon
27	Prudoxin
28	▢ Zomig-ZMT
29	Zomig
30	▢ Zomig
31	Zomig-ZMT
32	▢ zolpidem
33	Ambien, Ambien CR, Edluar, Intermezzo, Zolcrist

Different form of chart types were made using the information derived from these pivot tables. Some the important visuals were selected and brought to form a dashboard. Slicers were also added. Cards, made through shapes and connection to the information cell, were also added in the dashboard. The dashboard contains:

- Visuals, : Most reviewed drugs(top 5), Highest rated drugs (top 10), Count of drugs administered for each pregnancy category, count of drugs administered for each csa, most frequent side effects(top 10), most reviewed medical condition(top 10)
- Cards : Total no. of reviews, Average Rating, Most reviewed drug, Most frequent condition
- Slicers: drug name, pregnancy category, csa, medical condition description



DRUGS, SIDE EFFECTS AND MEDICAL CONDITION DASHBOARD

113841

Total no. of reviews

6.8349

Average Rating

2934

Phentermine
Most Reviewed Drug

238

Acne
Most Frequent Condition

medical_condition_description

ChAdOx1 nCoV-19) Vaccine platfor...

Acne Other names: Acne Vulgaris; ...

ADHD (Attention Deficit Hyperacti...

csa

2

3

4

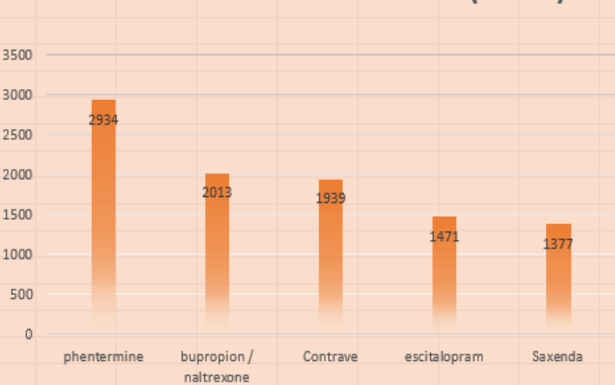
pregnancy_category

C

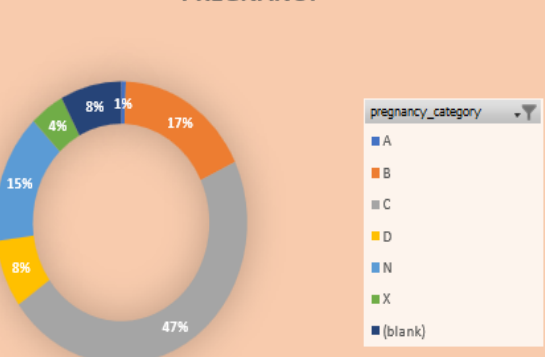
D

N

MOST REVIEWED DRUGS(TOP 5)



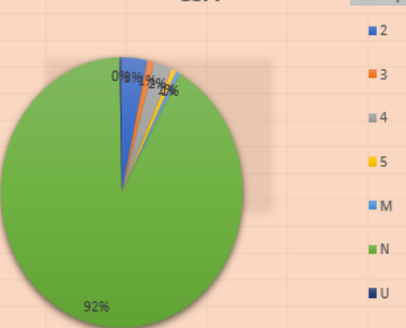
COUNT OF DRUGS ADMINISTERED FOR EACH PREGNANCY



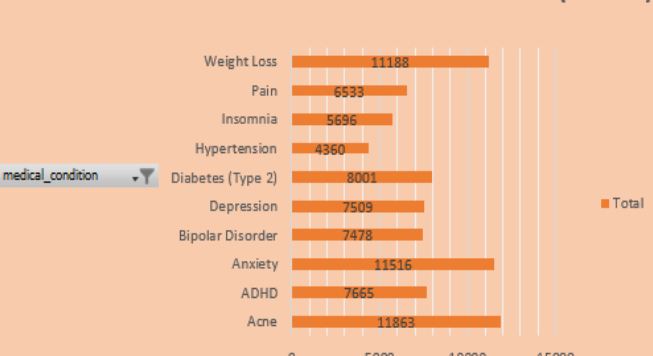
HIGHEST RATED DRUGS(TOP 10)



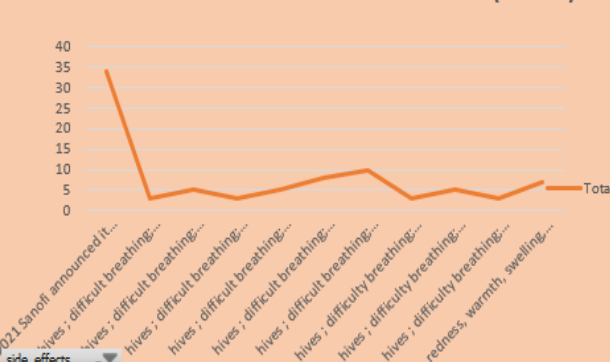
COUNT OF DRUGS ADMINISTERED FOR EACH CSA



MOST REVIEWED MEDICAL CONDITION(TOP 10)



HIGHEST OCCURING SIDE EFFECTS(TOP 10)



drug_name

Accutane

acebutolol

Acephen

acetaminophen

acetaminophen / aspirin

acetaminophen / aspirin / caffe...

acetaminophen / aspirin / caffe...

acetaminophen / benzhydroco...

acetaminophen / caffeine

acetaminophen / caffeine / dihydro...

acetaminophen / chlorpheniramine

acetaminophen / chlorpheniramine

acetaminophen / chlorpheniramine

acetaminophen / chlorpheniramine

acetaminophen / chlorpheniramine

acetaminophen / chlorpheniramine

acetaminophen / codeine

acetaminophen / dextromethorphan

acetaminophen / dextromethorphan

acetaminophen / dextromethorphan

acetaminophen / dextromethorphan

acetaminophen / dextromethorphan

THANK YOU

