

# Drug Labels & Side Effects Dataset

## Which drug manufacturers have drugs in this data set?

```
SELECT DISTINCT manufacturer
FROM realistic_drug_labels_side_effects
```

## Top 5 manufacturers with the highest number of antidepressants?

```
SELECT manufacturer, drug_class, COUNT (drug_class) as drug_class_count
FROM realistic_drug_labels_side_effects
WHERE drug_class = 'Antidepressant'
GROUP BY manufacturer
ORDER BY drug_class_count desc
LIMIT 5;
```

## What is the drug name and which manufacturer does it belong to - having the highest number of antifungal approved between 2000-2015

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```
SELECT drug_name, manufacturer, drug_class, COUNT (drug_class) as drug_class_count, approval_year
FROM realistic_drug_labels_side_effects
WHERE drug_class = 'Antifungal' and approval_year between 2000 and 2015
GROUP BY manufacturer
ORDER BY drug_class_count desc
LIMIT 1;
```

## Categorize drugs into Enteral, Parenteral, or Topical/Mucosal and then calculate the % of each category

```
SELECT administration_route_classification,
       COUNT(*) * 100.0 / SUM(COUNT(*)) OVER () AS percentage
FROM (
  SELECT drug_name,
         administration_route,
         CASE
```

```

        WHEN administration_route IN ('Rectal','Sublingual','Oral')
            THEN 'Enteral'
        WHEN administration_route IN ('Inhalation','Topical')
            THEN 'Topical/Mucosal'
        WHEN administration_route IN ('Intravenous','Intramuscular')
            THEN 'Parenteral'
        ELSE 'Other'
    END AS administration_route_classification
FROM realistic_drug_labels_side_effects
) t
GROUP BY administration_route_classification
ORDER BY percentage DESC;

```

## Group manufacturers into Medium, Large, and X-Large

```

SELECT manufacturer,
    COUNT(drug_name) AS total_drugs,
    CASE
        WHEN COUNT(drug_name) < 135 THEN 'Medium'
        WHEN COUNT(drug_name) BETWEEN 136 AND 150 THEN 'Large'
        WHEN COUNT(drug_name) > 150 THEN 'X-Large'
    END AS manufacturer_size
FROM realistic_drug_labels_side_effects
GROUP BY manufacturer
ORDER BY total_drugs DESC;

```

**Which drugs contain both warnings or contraindications about pregnancy or fertility (include in query, price, expiry date, and if the drug approval status). The approved drugs should be at the top of the query list.**

```

SELECT drug_name, contraindications, warnings, price_usd, expiry_date, approval_status
FROM realistic_drug_labels_side_effects
WHERE contraindications LIKE '%Pregnancy%' or warnings LIKE '%fertility%'
ORDER BY approval_status

```