Test: Dashboard Component Validation

Objective: Validate the values of the components of the dashboard with respect to the original database (SQL).

1. Test Case: Most Common Reported Issues

SQL:

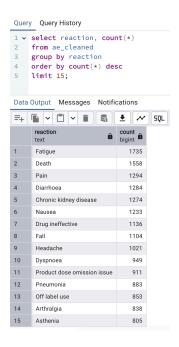
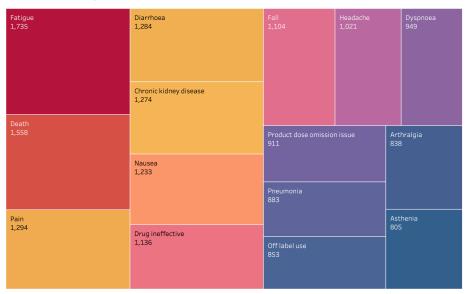
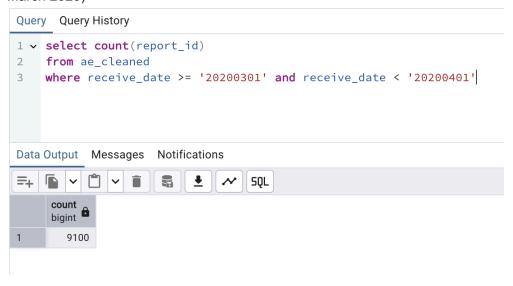


Tableau:

Most Common Reported Issues



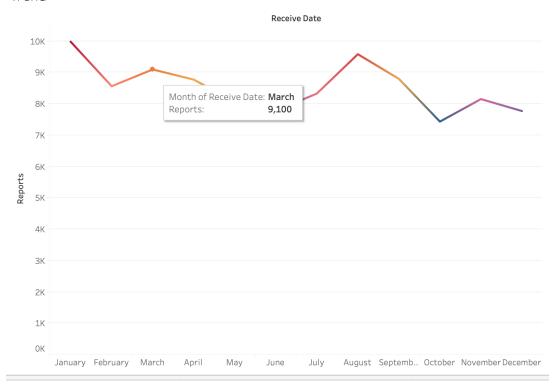
2. **Test Case:** Validate the counts shown in the "Trend" line chart for a specific month (e.g., March 2020)



SQL:

Tableau:

Trend

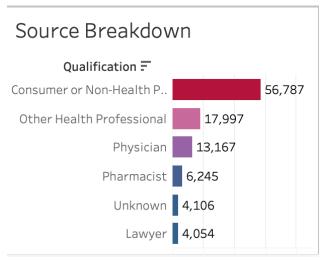


3. Test case: Source Breakdown - Count of reports from Qualification

SQL:

```
Query Query History
1 v with ae_joined as (select
         r.report_id, r.receive_date,
 3
         r.serious, s.serious_description,
 4
         r.report_country, r.occurrence_country,
         r.source_qualification, sq.qualification_description,
         r.drug_characterization, dc.drug_characterization_description,
         r.medicinal_product, r.generic_name, r.brand_name, r.reaction
    from ae_cleaned r
9
     left join serious_codes s on r.serious = s.serious
     left join drug_characterization_codes dc on r.drug_characterization = dc.drug_characterization
10
11
     left join source_qualification_codes sq on r.source_qualification = sq.source_qualification
12
13
14
     select qualification_description, count(*) from ae_joined
     group by qualification_description
     order by count(*) desc
Data Output Messages Notifications
           SQL
     qualification_description
     character varying (100)
     Consumer or Non-Health Professional
                                   56787
     Other Health Professional
2
                                   17997
3
     Physician
                                   13167
     Pharmacist
                                    6245
     [null]
                                    4106
                                    4054
     Lawyer
```

Tableau:



4. **Test case:** Serious vs Not Serious - Percentage/Count. Validate the counts or percentages in the pie chart.

SQL:

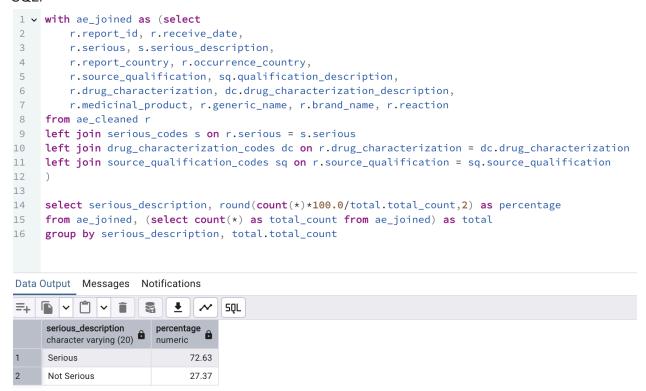
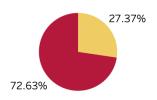


Tableau:

Serious vs Not-Serious



Serious Description

Not Serious

Serious

5. Test case: Count the number of reports related to muscle-related events for each statin

Atorvastatin:

SQL:

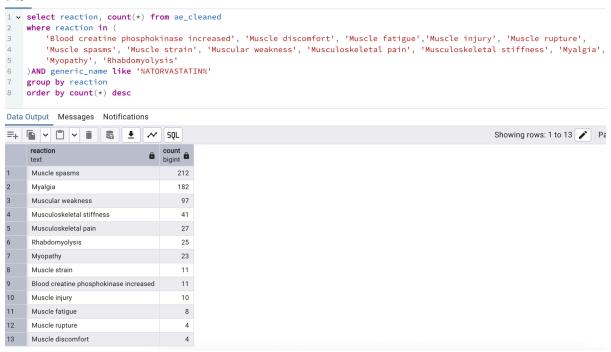
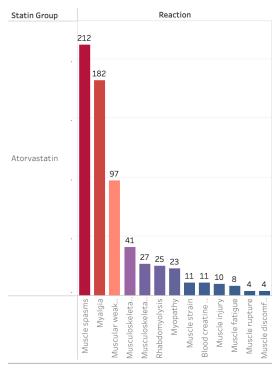


Tableau:



Rosuvastatin:

SQL:

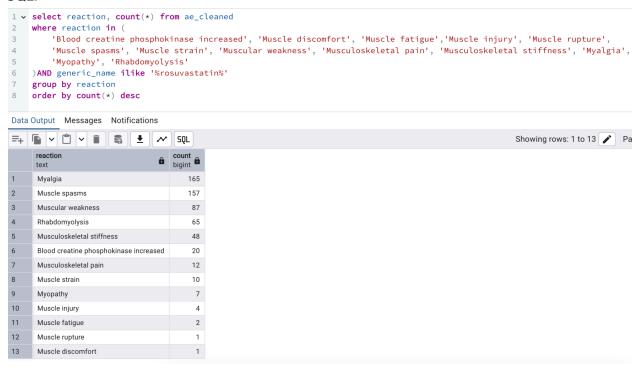
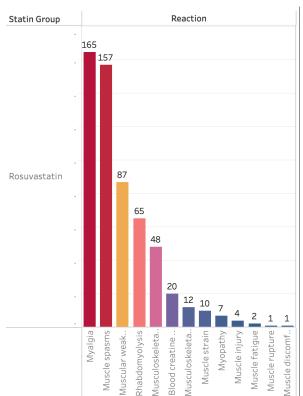


Tableau:



Simvastatin:

SQL:

```
1 v select reaction, count(*) from ae_cleaned
where reaction in (
         'Blood creatine phosphokinase increased', 'Muscle discomfort', 'Muscle fatigue','Muscle injury', 'Muscle rupture',
         'Muscle spasms', 'Muscle strain', 'Muscular weakness', 'Musculoskeletal pain', 'Musculoskeletal stiffness', 'Myalgia',
         'Myopathy', 'Rhabdomyolysis'
    )AND generic_name ilike '%simvastatin%'
6
    group by reaction
    order by count(*) desc
Data Output Messages Notifications
=+ 🖺 ∨ 📋 ∨ 🛊 👼 👲 💉 SQL
                                                                                                             Showing rows: 1 to 13 Pag
     reaction
text
1
     Myalgia
                                      111
2
                                      100
     Muscle spasms
3
                                       78
     Muscular weakness
4
     Rhabdomyolysis
                                       60
5
     Musculoskeletal stiffness
                                       55
6
     Musculoskeletal pain
                                       27
7
     Myopathy
                                        6
8
     Blood creatine phosphokinase increased
                                        5
9
     Muscle strain
                                        4
10
     Muscle rupture
                                        3
11
     Muscle injury
                                        3
12
     Muscle fatigue
                                        2
```

Tableau:

Muscle discomfort

