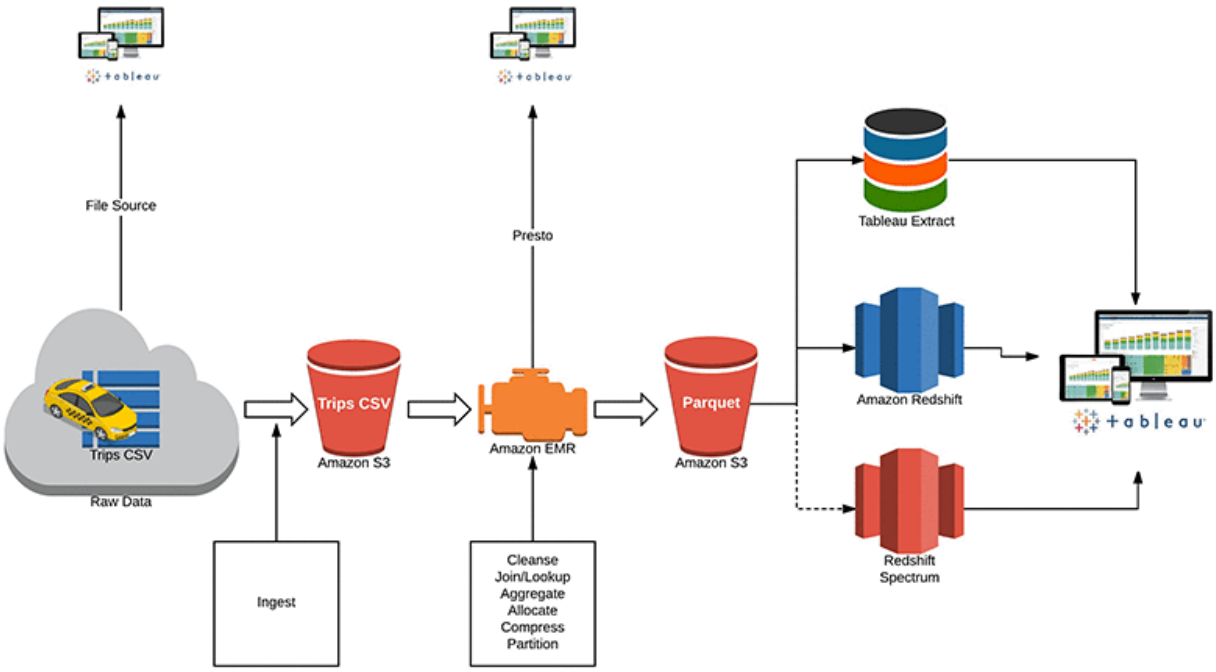
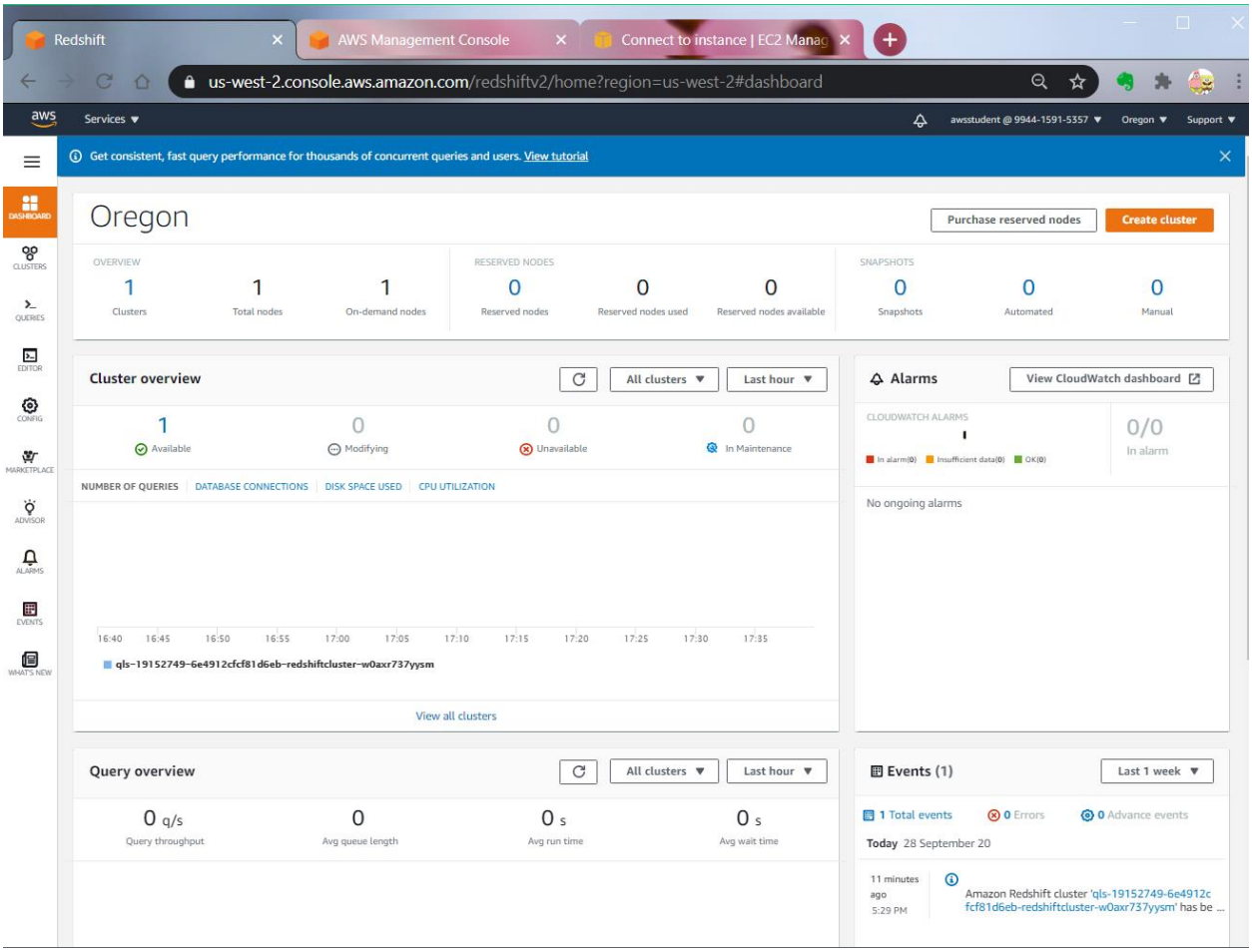
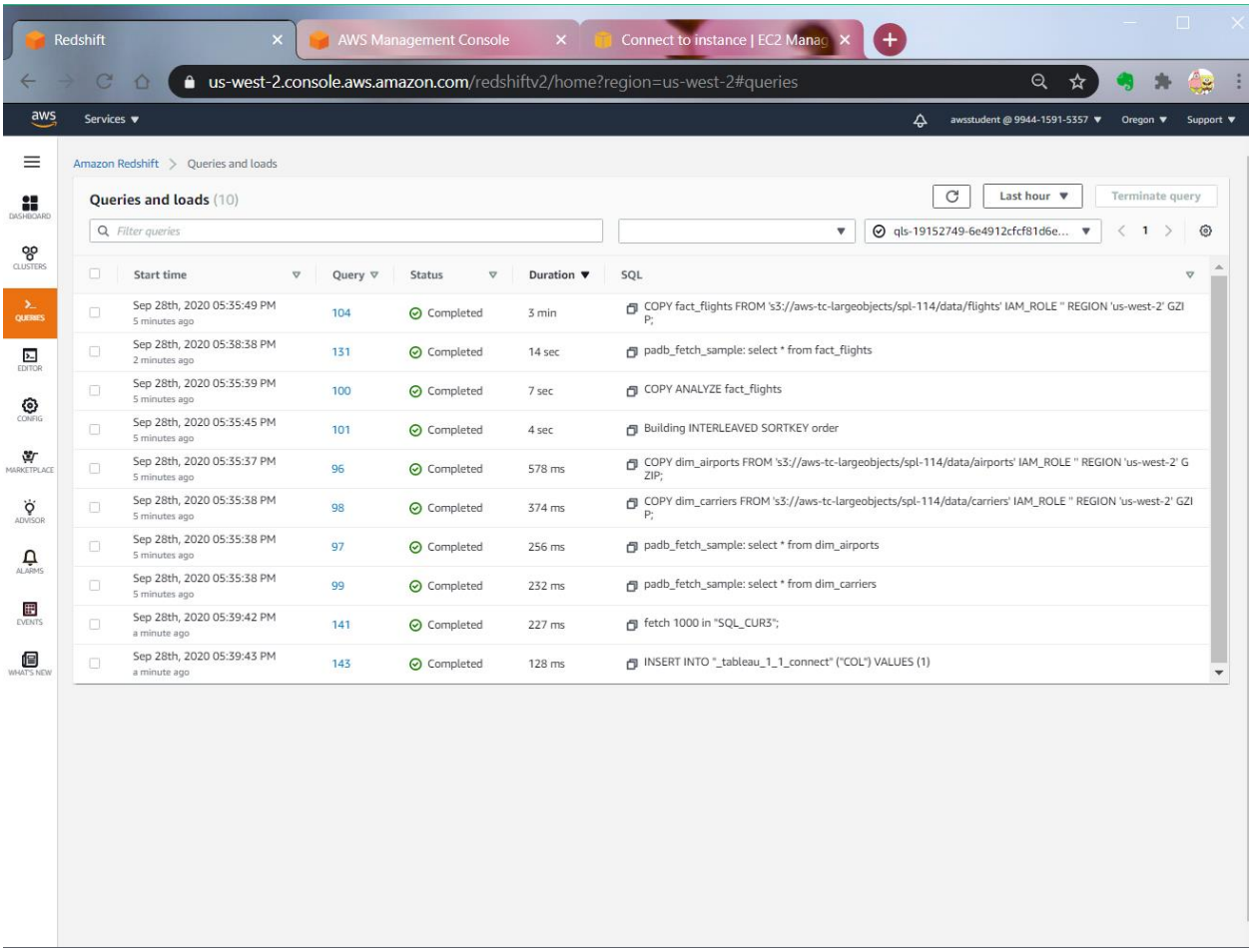
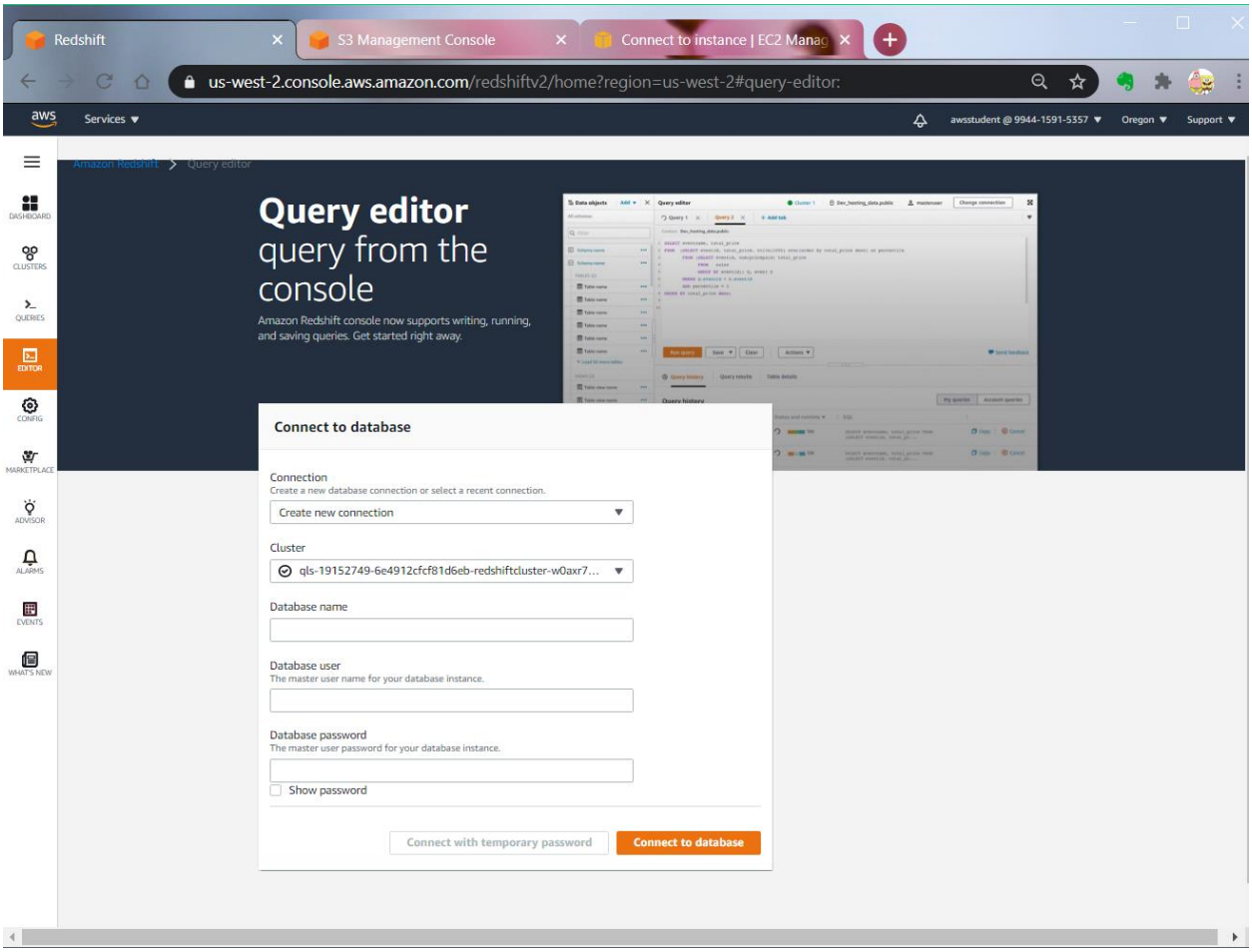
Using Tableau Desktop with Amazon Redshift

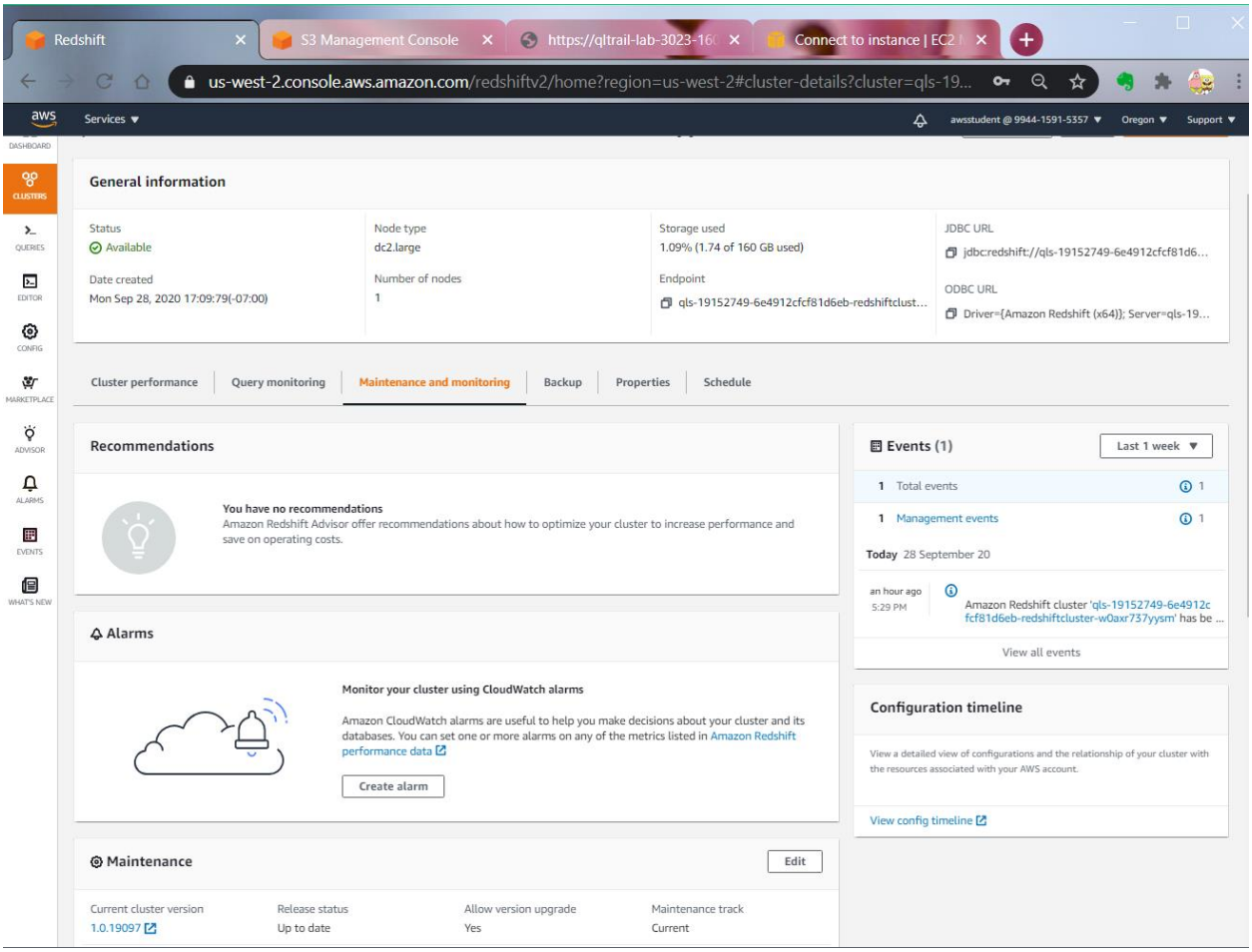


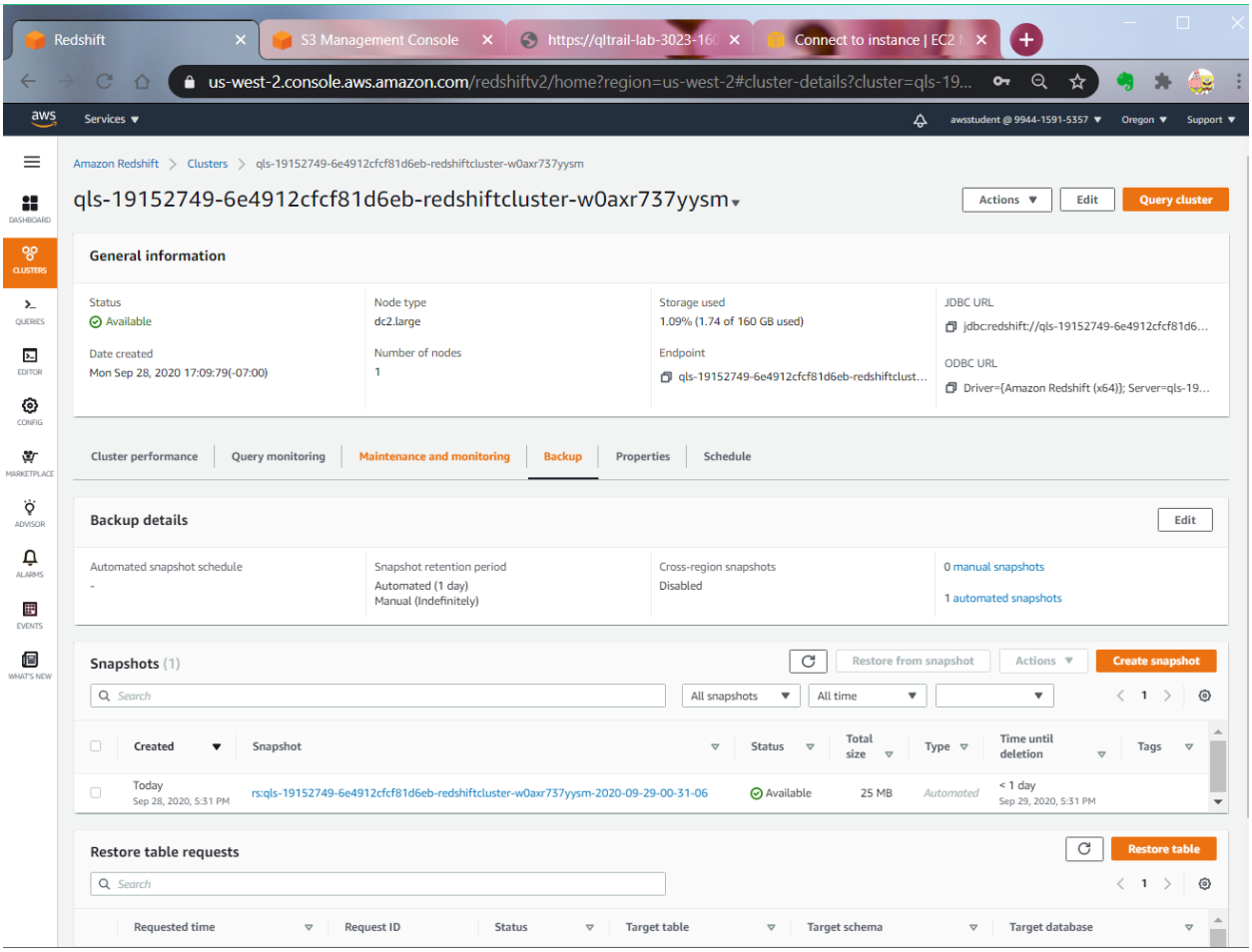
- AWS RedShift

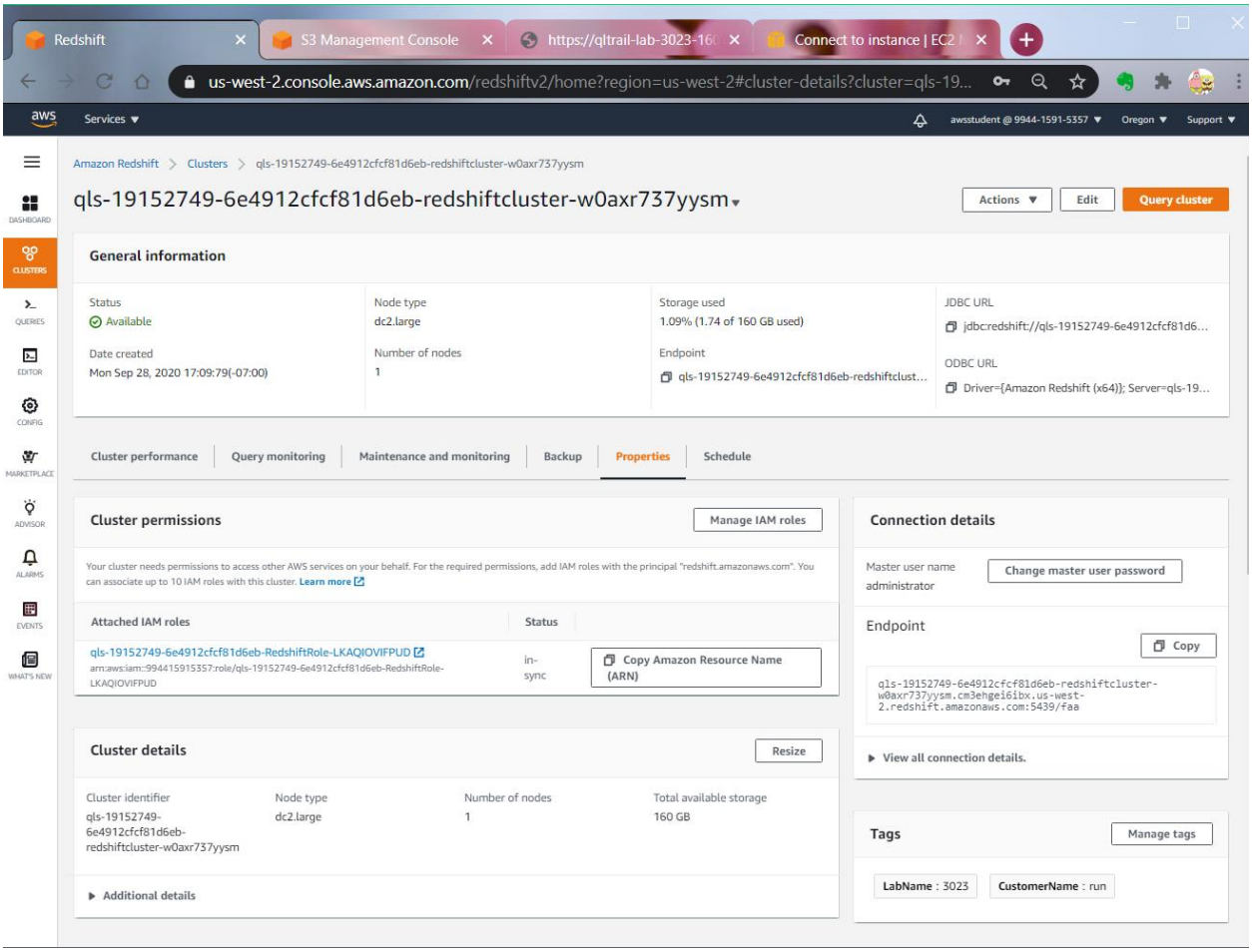



Redshift
AWS Management Console
Connect to instance | EC2 Manag
us-west-2.console.aws.amazon.com/redshiftv2/home?region=us-west-2#queries
Services
awsstudent @ 9944-1591-5357
Oregon
Support
Amazon Redshift
Queries and loads
Queries and loads (10)
Last hour
Terminate query
Filter queries
qls-19152749-6e4912cfcf81d6e...
1
DASHBOARD
CLUSTERS
QUERIES
EDITOR
CONFIG
MARKETPLACE
ADVISOR
ALARMS
EVENTS
WHAT'S NEW
Start time
Query
Status
Duration
SQL
Sep 28th, 2020 05:35:49 PM
5 minutes ago
104
Completed
3 min
COPY fact_flights FROM 's3://aws-tc-largeobjects/spl-114/data/flights' IAM_ROLE '' REGION 'us-west-2' GZIP;
Sep 28th, 2020 05:38:38 PM
2 minutes ago
131
Completed
14 sec
padb_fetch_sample: select * from fact_flights
Sep 28th, 2020 05:35:39 PM
5 minutes ago
100
Completed
7 sec
COPY ANALYZE fact_flights
Sep 28th, 2020 05:35:45 PM
5 minutes ago
101
Completed
4 sec
Building INTERLEAVED SORTKEY order
Sep 28th, 2020 05:35:37 PM
5 minutes ago
96
Completed
578 ms
COPY dim_airports FROM 's3://aws-tc-largeobjects/spl-114/data/airports' IAM_ROLE '' REGION 'us-west-2' GZIP;
Sep 28th, 2020 05:35:38 PM
5 minutes ago
98
Completed
374 ms
COPY dim_carriers FROM 's3://aws-tc-largeobjects/spl-114/data/carriers' IAM_ROLE '' REGION 'us-west-2' GZIP;
Sep 28th, 2020 05:35:38 PM
5 minutes ago
97
Completed
256 ms
padb_fetch_sample: select * from dim_airports
Sep 28th, 2020 05:35:38 PM
5 minutes ago
99
Completed
232 ms
padb_fetch_sample: select * from dim_carriers
Sep 28th, 2020 05:39:42 PM
a minute ago
141
Completed
227 ms
fetch 1000 in "SQL_CUR3";
Sep 28th, 2020 05:39:43 PM
a minute ago
143
Completed
128 ms
INSERT INTO "_tableau_1_1_connect" ("COL") VALUES (1)


Redshift
S3 Management Console
Connect to instance | EC2 Manag
us-west-2.console.aws.amazon.com/redshiftv2/home?region=us-west-2#query-editor:
Services
awsstudent @ 9944-1591-5357
Oregon
Support
Amazon Redshift > Query editor
Query editor
query from the console
Amazon Redshift console now supports writing, running, and saving queries. Get started right away.
DASHBOARD
CLUSTERS
QUERIES
EDITOR
CONFIG
MARKETPLACE
ADVISOR
ALARMS
EVENTS
WHAT'S NEW
Connect to database
Connection
Create a new database connection or select a recent connection.
Create new connection
Cluster
qls-19152749-6e4912cfcf81d6eb-redshiftcluster-w0axr7...
Database name
Database user
The master user name for your database instance.
Database password
The master user password for your database instance.
Show password
Connect with temporary password
Connect to database

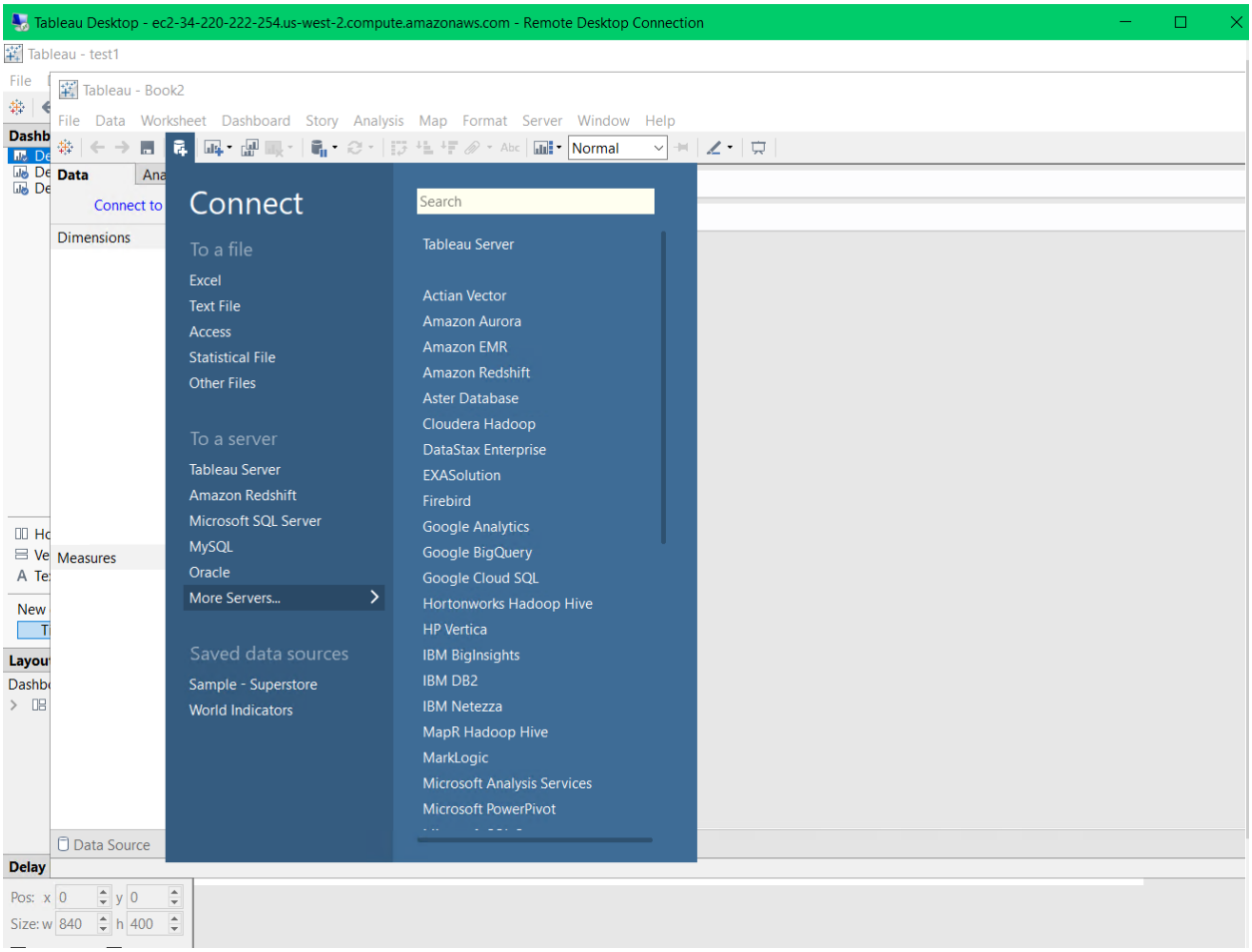

Redshift
S3 Management Console
https://qltrail-lab-3023-16
Connect to instance | EC2
us-west-2.console.aws.amazon.com/redshiftv2/home?region=us-west-2#cluster-details?cluster=qls-19...
aws
Services
awsstudent @ 9944-1591-5357
Oregon
Support
DASHBOARD
CLUSTERS
QUERIES
EDITOR
CONFIG
MARKETPLACE
ADVISOR
ALARMS
EVENTS
WHAT'S NEW
General information
Status
Available
Node type
dc2.large
Storage used
1.09% (1.74 of 160 GB used)
JDBC URL
jdbc:redshift://qls-19152749-6e4912cfcf81d6...
Date created
Mon Sep 28, 2020 17:09:79(-07:00)
Number of nodes
1
Endpoint
qls-19152749-6e4912cfcf81d6eb-redshiftclust...
ODBC URL
Driver={Amazon Redshift (x64)}; Server=qls-19...
Cluster performance
Query monitoring
Maintenance and monitoring
Backup
Properties
Schedule
Recommendations
You have no recommendations
Amazon Redshift Advisor offer recommendations about how to optimize your cluster to increase performance and save on operating costs.
Events (1)
Last 1 week
1 Total events
1
1 Management events
1
Today 28 September 20
an hour ago
5:29 PM
Amazon Redshift cluster 'qls-19152749-6e4912cfcf81d6eb-redshiftcluster-w0axr737yysm' has be ...
View all events
Alarms
Monitor your cluster using CloudWatch alarms
Amazon CloudWatch alarms are useful to help you make decisions about your cluster and its databases. You can set one or more alarms on any of the metrics listed in Amazon Redshift performance data
Create alarm
Configuration timeline
View a detailed view of configurations and the relationship of your cluster with the resources associated with your AWS account.
View config timeline
Maintenance
Edit
Current cluster version
1.0.19097
Release status
Up to date
Allow version upgrade
Yes
Maintenance track
Current


Redshift
S3 Management Console
https://qltrail-lab-3023-16
Connect to instance | EC2
us-west-2.console.aws.amazon.com/redshiftv2/home?region=us-west-2#cluster-details?cluster=qls-19...
aws
Services
awsstudent @ 9944-1591-5357
Oregon
Support
Amazon Redshift > Clusters > qls-19152749-6e4912cfcf81d6eb-redshiftcluster-w0axr737yysm
qls-19152749-6e4912cfcf81d6eb-redshiftcluster-w0axr737yysm
Actions
Edit
Query cluster
General information
Status
Available
Node type
dc2.large
Storage used
1.09% (1.74 of 160 GB used)
JDBC URL
jdbc:redshift://qls-19152749-6e4912cfcf81d6...
Date created
Mon Sep 28, 2020 17:09:79(-07:00)
Number of nodes
1
Endpoint
qls-19152749-6e4912cfcf81d6eb-redshiftclust...
ODBC URL
Driver={Amazon Redshift (x64)}; Server=qls-19...
Cluster performance
Query monitoring
Maintenance and monitoring
Backup
Properties
Schedule
Backup details
Edit
Automated snapshot schedule
-
Snapshot retention period
Automated (1 day)
Manual (Indefinitely)
Cross-region snapshots
Disabled
0 manual snapshots
1 automated snapshots
Snapshots (1)
Restore from snapshot
Actions
Create snapshot
Search
All snapshots
All time
Created
Snapshot
Status
Total size
Type
Time until deletion
Tags
Today
Sep 28, 2020, 5:31 PM
rs:qls-19152749-6e4912cfcf81d6eb-redshiftcluster-w0axr737yysm-2020-09-29-00-31-06
Available
25 MB
Automated
< 1 day
Sep 29, 2020, 5:31 PM
Restore table requests
Restore table
Search
Requested time
Request ID
Status
Target table
Target schema
Target database

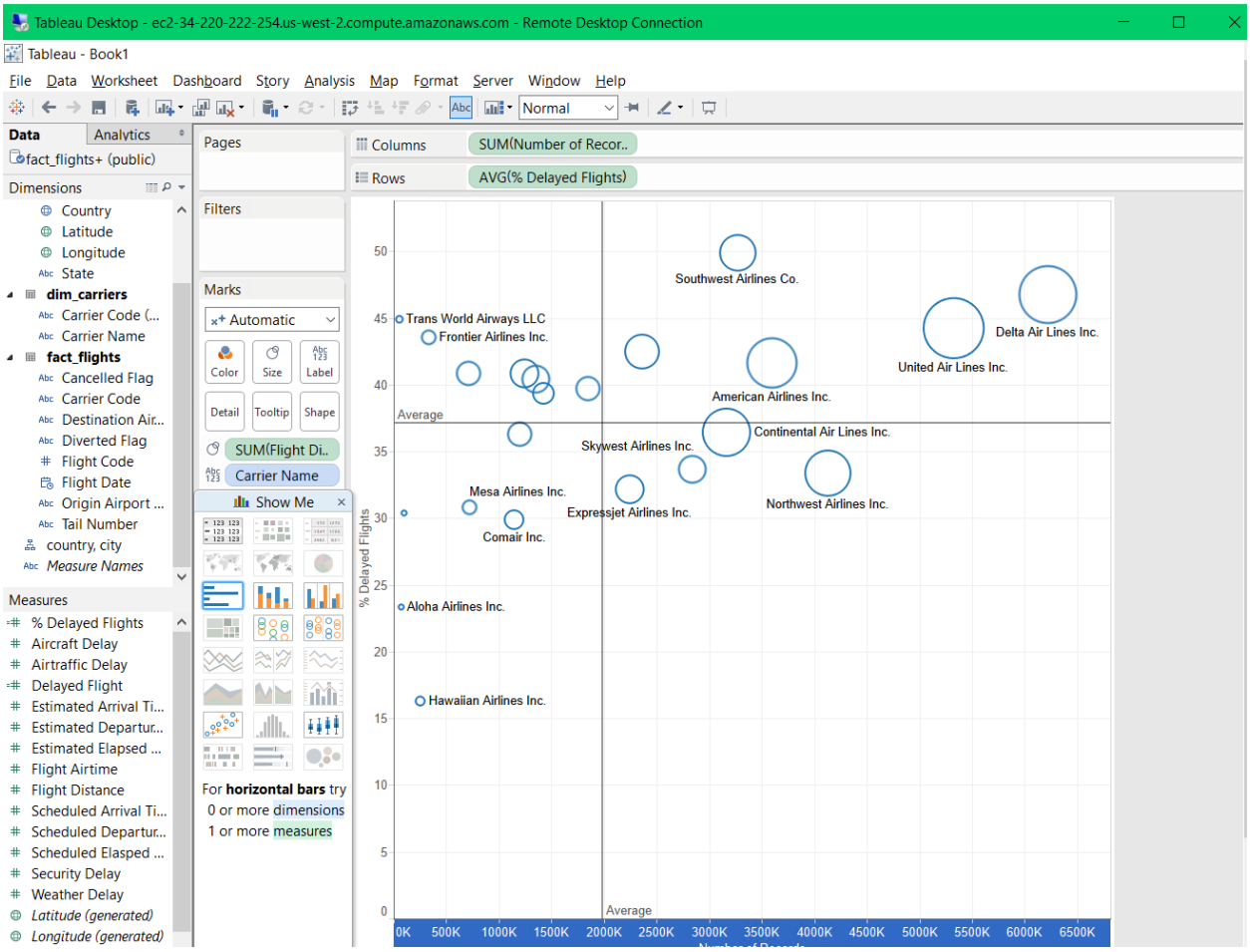

Redshift
S3 Management Console
https://qltrail-lab-3023-16
Connect to instance | EC2
us-west-2.console.aws.amazon.com/redshiftv2/home?region=us-west-2#cluster-details?cluster=qls-19...
Services
awsstudent @ 9944-1591-5357
Oregon
Support
Amazon Redshift > Clusters > qls-19152749-6e4912cfcf81d6eb-redshiftcluster-w0axr737yysm
qls-19152749-6e4912cfcf81d6eb-redshiftcluster-w0axr737yysm
Actions
Edit
Query cluster
General information
Status
Available
Node type
dc2.large
Storage used
1.09% (1.74 of 160 GB used)
JDBC URL
jdbc:redshift://qls-19152749-6e4912cfcf81d6...
Date created
Mon Sep 28, 2020 17:09:79(-07:00)
Number of nodes
1
Endpoint
qls-19152749-6e4912cfcf81d6eb-redshiftclust...
ODBC URL
Driver={Amazon Redshift (x64)}; Server=qls-19...
Cluster performance
Query monitoring
Maintenance and monitoring
Backup
Properties
Schedule
Cluster permissions
Manage IAM roles
Your cluster needs permissions to access other AWS services on your behalf. For the required permissions, add IAM roles with the principal "redshift.amazonaws.com". You can associate up to 10 IAM roles with this cluster. Learn more
Attached IAM roles
Status
qls-19152749-6e4912cfcf81d6eb-RedshiftRole-LKAQIOVIFPUD
arn:aws:iam::994415915357:role/qls-19152749-6e4912cfcf81d6eb-RedshiftRole-LKAQIOVIFPUD
in-sync
Copy Amazon Resource Name (ARN)
Cluster details
Resize
Cluster identifier
qls-19152749-6e4912cfcf81d6eb-redshiftcluster-w0axr737yysm
Node type
dc2.large
Number of nodes
1
Total available storage
160 GB
Additional details
Connection details
Master user name
administrator
Change master user password
Endpoint
Copy
qls-19152749-6e4912cfcf81d6eb-redshiftcluster-w0axr737yysm.cm3ehge16ibx.us-west-2.redshift.amazonaws.com:5439/faa
View all connection details.
Tags
Manage tags
LabName : 3023
CustomerName : run

- Tableau :

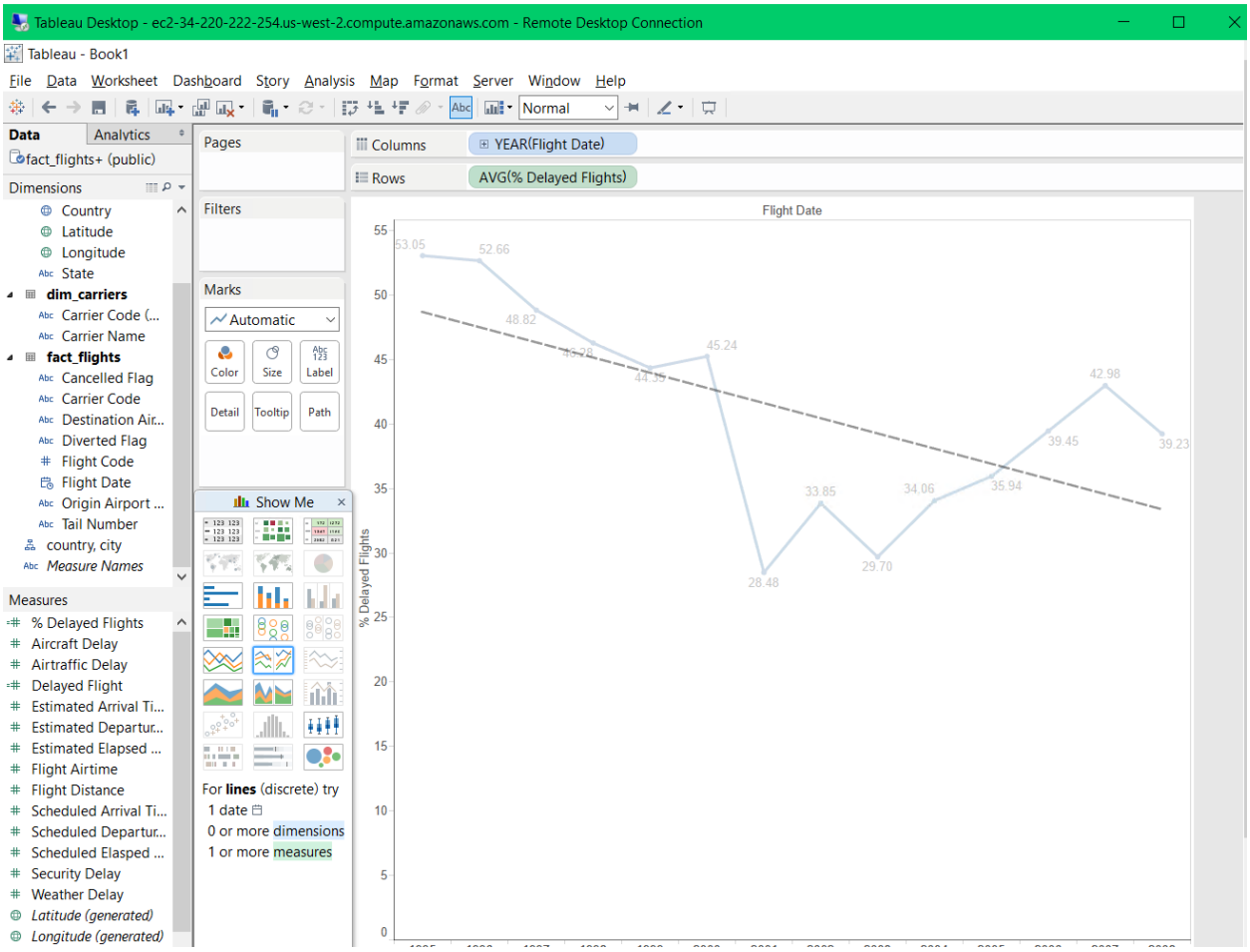
A lot of data source connectors:



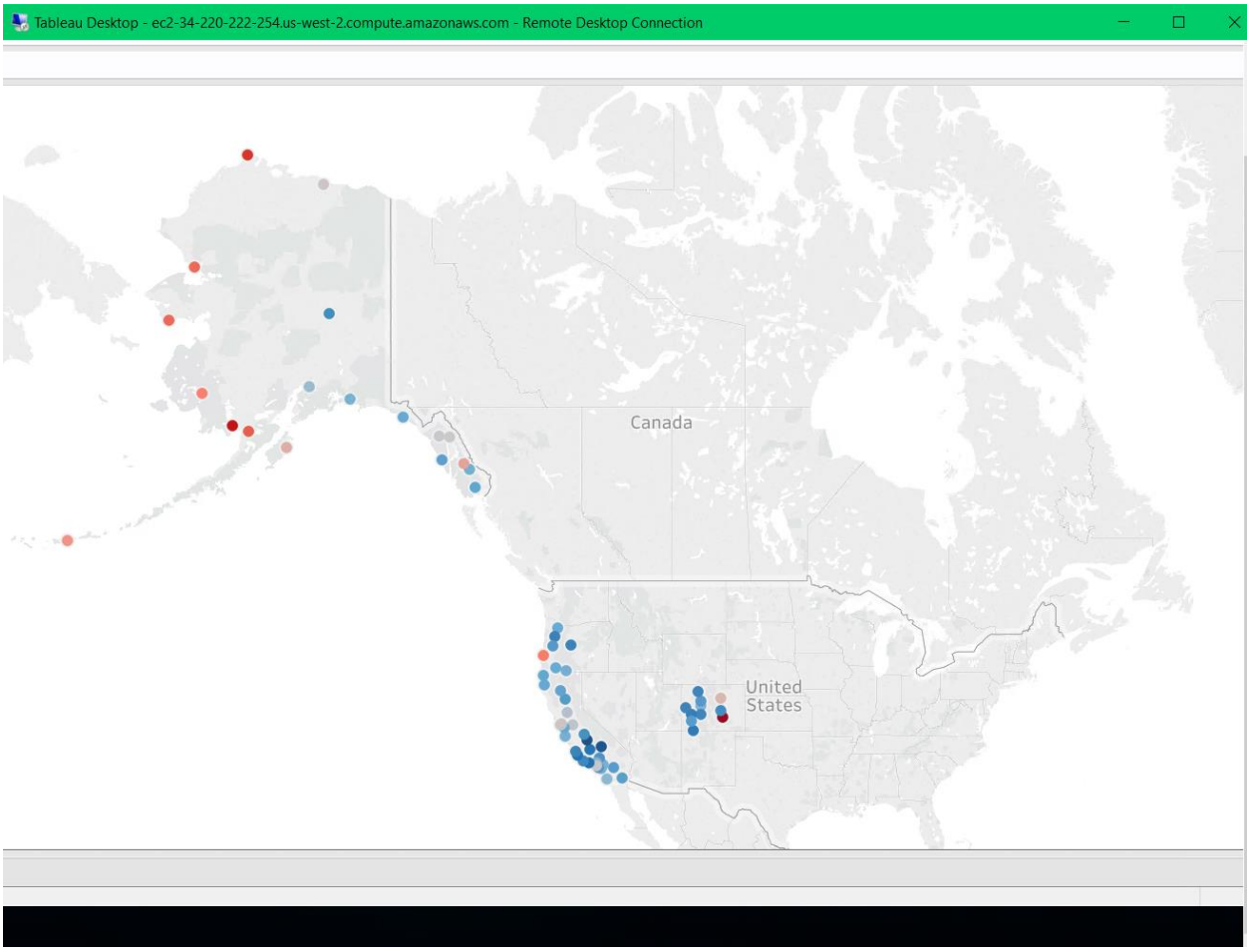
Drag and drop to show charts:



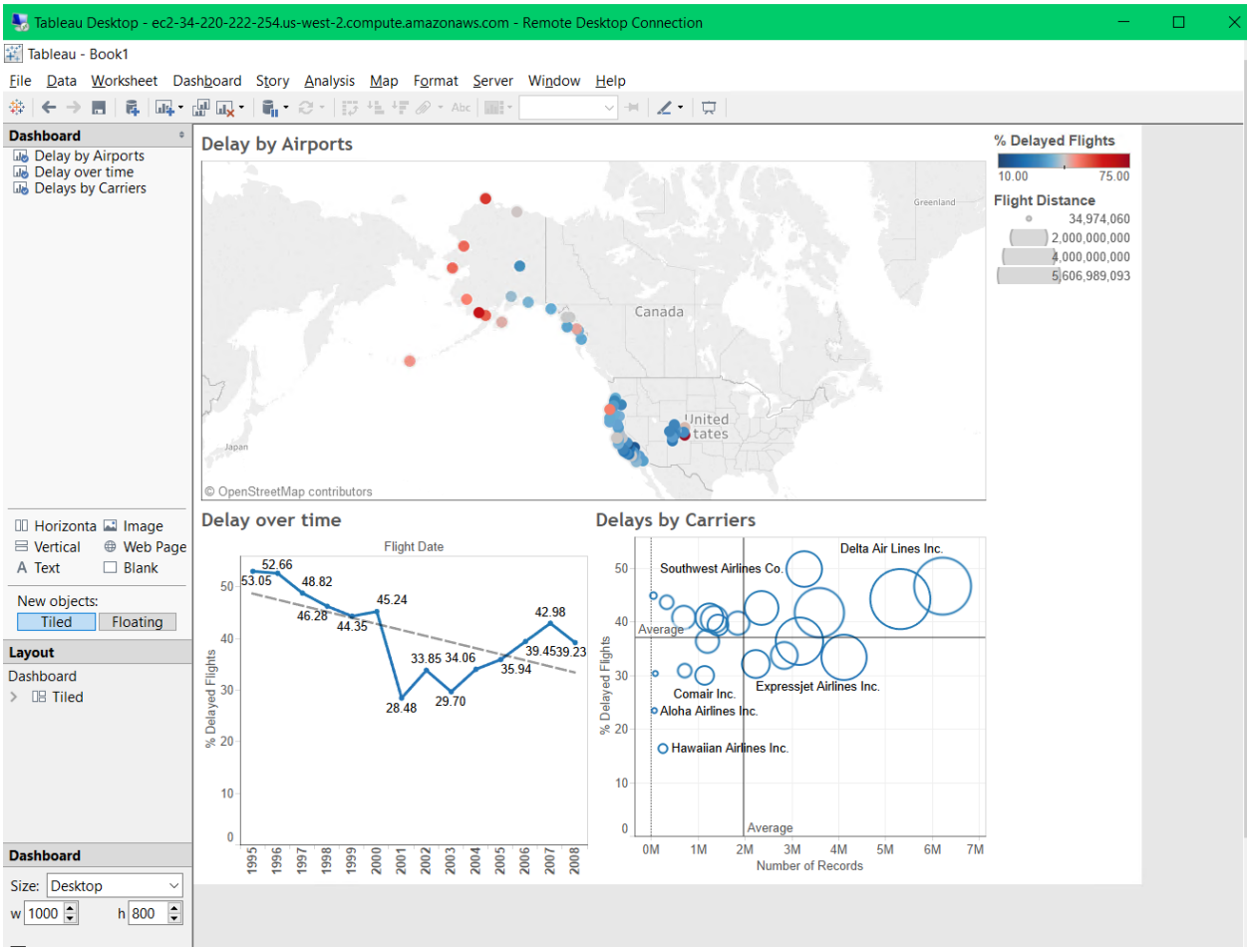
Trendline made easy:



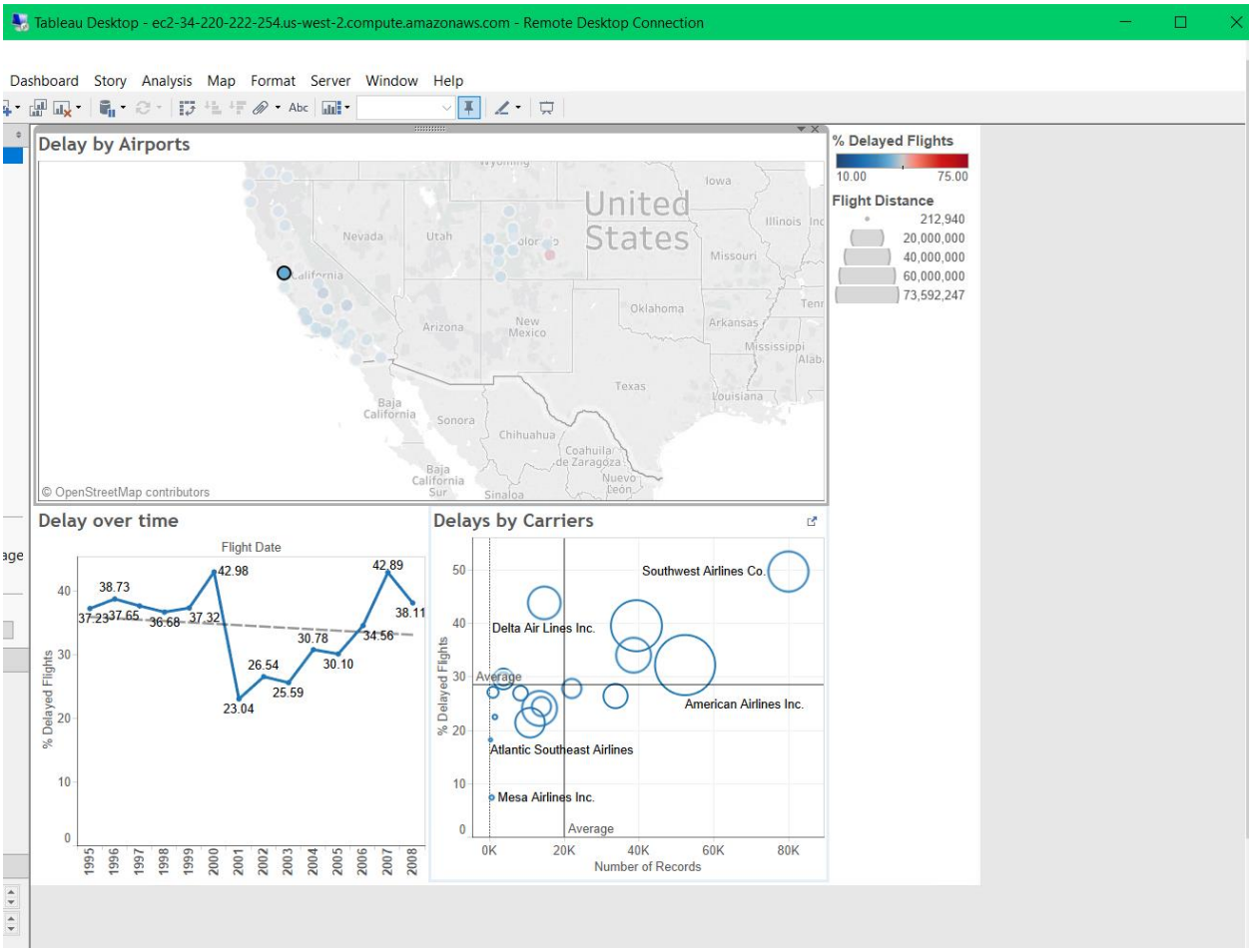
Maps made easy:



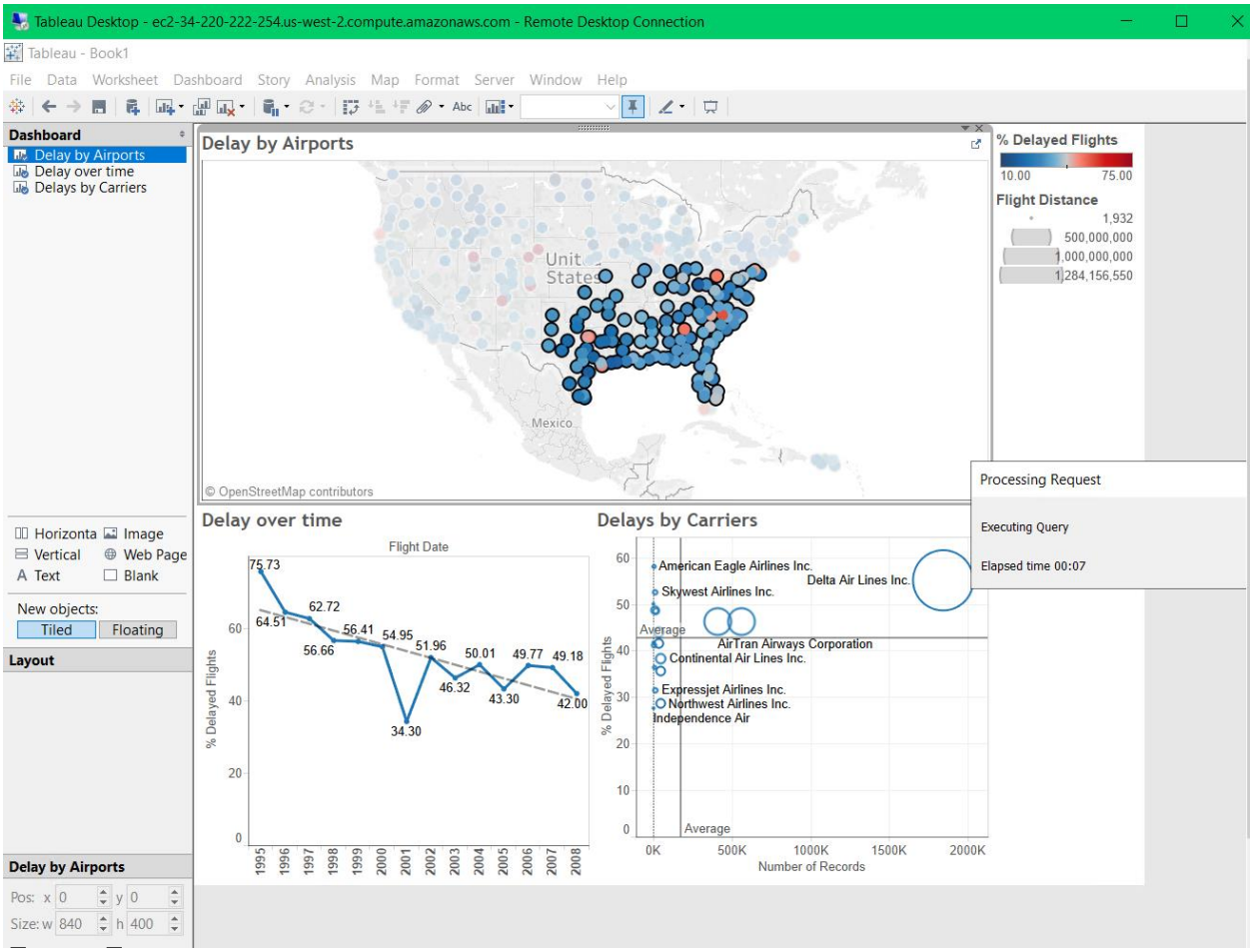
Dashboard made easy with filters:



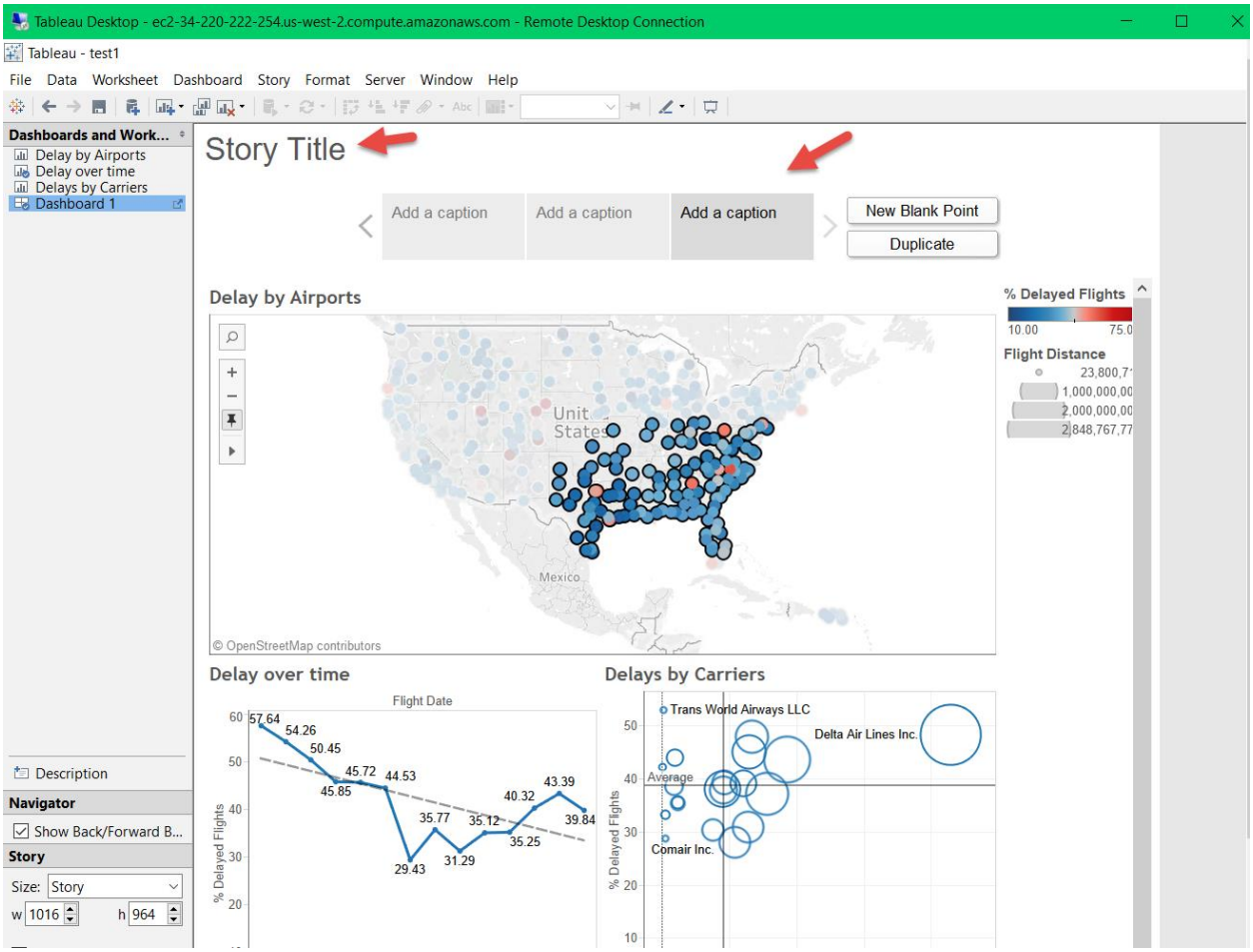
Dashboard made easy with filters:



Dashboard made easy with filters:



Can add story easily:



Doc references:

1/ What's new in Redshift - https://us-west-2.console.aws.amazon.com/redshiftv2/home?region=us-west-2#whats-new

e.g.

- https://aws.amazon.com/about-aws/whats-new/2020/09/announcing-data-api-for-amazon-redshift/
- https://aws.amazon.com/about-aws/whats-new/2020/04/announcing-cost-controls-for-amazon-redshift-spectrum-and-concurrency-scaling/

2/ https://help.tableau.com/current/pro/desktop/en-us/examples_amazonredshift.htm This article describes how to connect Tableau to an Amazon Redshift database and set up the data source.

3/ Lab - https://www.qwiklabs.com/focuses/14202?parent=catalog