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Data to Dashboards

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Data to Dashboard - Real-time Data Processing and Analysis

Prerequisites

Introduction

Ingesting Real-time Data Streams

▼ Data Processing using Amazon Managed Apache Flink

Overview

Preparation

Run Studio Notebook

▼ Deliver Processed Data using Amazon Data Firehose

Overview

Deliver data

Access and Validate processed data

▼ Visualize Real-time data using Amazon QuickSight

Overview - Two Options

Preparation

Build Dashboard

Conclusion & Next Steps

▼ AWS account access

Open AWS console (us-east-1)

Get AWS CLI credentials

Exit event

Event dashboard > Visualize Real-time data using Amazon QuickSight > Build Dashboard

Build Dashboard

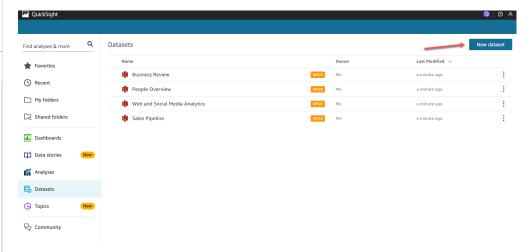
Now that we have access to Amazon QuickSight, let's go ahead and create the required datasource and dataset to build dashboard.

Create Athena Datasource

1. From QuickSight main page click on Datasets.

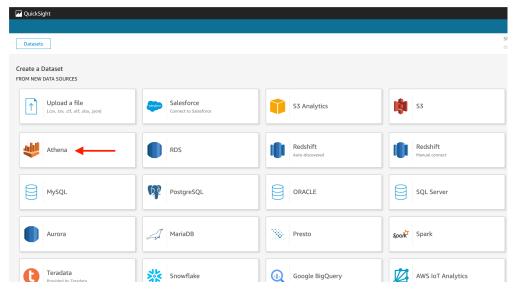


2. From the Datasets screen, click on New Dataset:

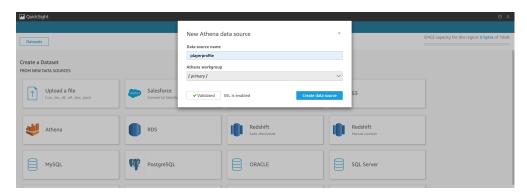


Create Athena Datasource as shown below:

3. Click on Athena

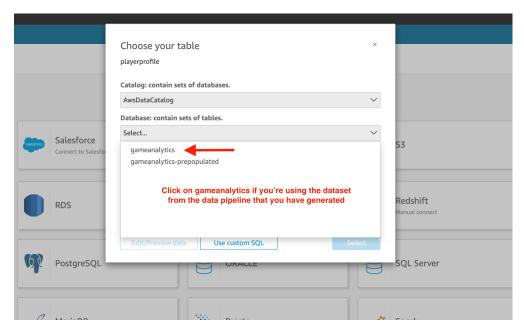


3a. Type in playerprofile and click on Validate Connection --> Validated



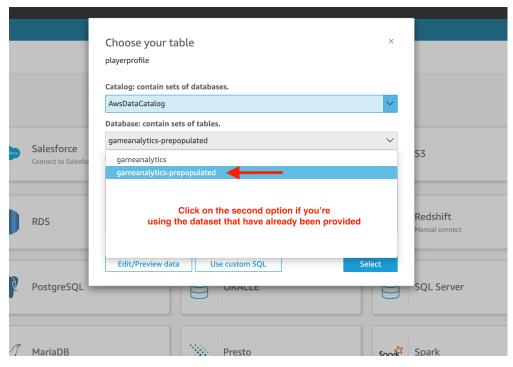
OPTION 1

3b. Click on gamesanalytics - if you're using the data from the data pipeline that you have generated.



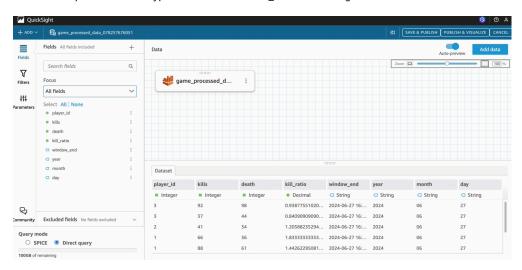
OPTION 2

3c. Click on gamesanalytics-prepopulated - if you're using prepopulated data.



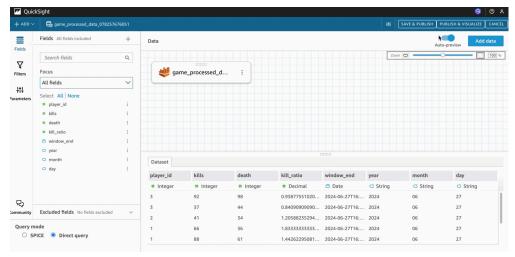
OPTION 1 & 2

- 3d. Once you have selected your table, click on Edit/Preview data
- 4. Click on Update the date type for column window_end from String to Date.



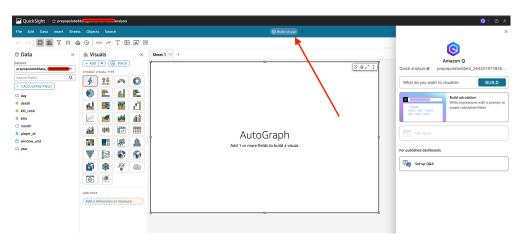
Create QuickSight Dashboard

1. Click on **PUBLISH & VISUALIZE** to create an Analysis to start building dashboard.

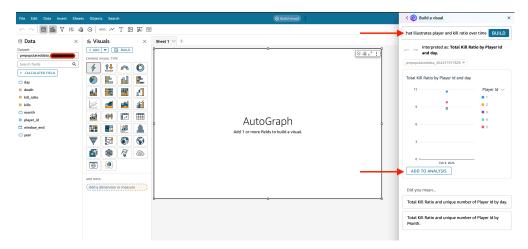


2. Let's build a quick line chart that shows the **Kill Ratio** for each player.

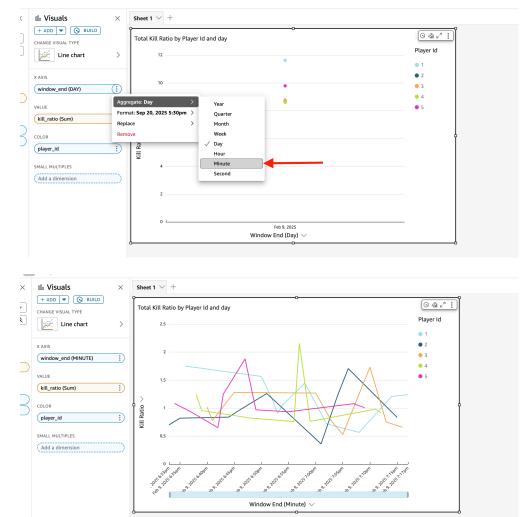
3. Click on Build visual



- 4. Type in: Create a line graph that illustrates player and kill ratio over time and click on **Build**
- 5. Click on Add to Analysis

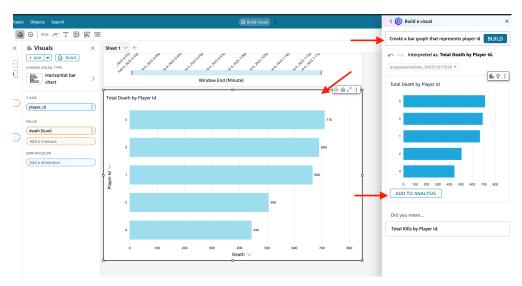


6. Change window_end on the x-axis to aggregate by minute



7. We can also create a bar graph that represents player_id and their number of deaths

Type in: Create a bar graph that represents player id and their deaths



QuickSight Example Dashboard

Below is a Sample QuickSight Dashabord with key insights:

• **Player Leaderboard:** This chart updates near real-time to show palyer with highest kill ratio based on last 5mins game data.

• **Kill Ratio Distribution:** This chart provides the distribution of kill ratio for a team and based in this game admins can provide additional power boosters or options to make the game engaging.

• We can also monitor Player Performaance and Player Contribution



Conclusion

In this module, you gained hands-on experience using Amazon QuickSight and building visuals and dashboards that can be leveraged for decision making.



