Setting Up Dashboard in MongoDB Charts

Step 1: Access MongoDB Charts Dashboard

1. Go to Google Cloud Platform.
2. On the **VM Instance**, click the external IP to open the MongoDB Charts dashboard.
3. If it doesn't launch, try copying and pasting the IP into your browser's address bar.
4. Once the page loads, MongoDB Charts is ready!
5. Use the following credentials to log in (created previously):
   - **Username**: admin@example.com
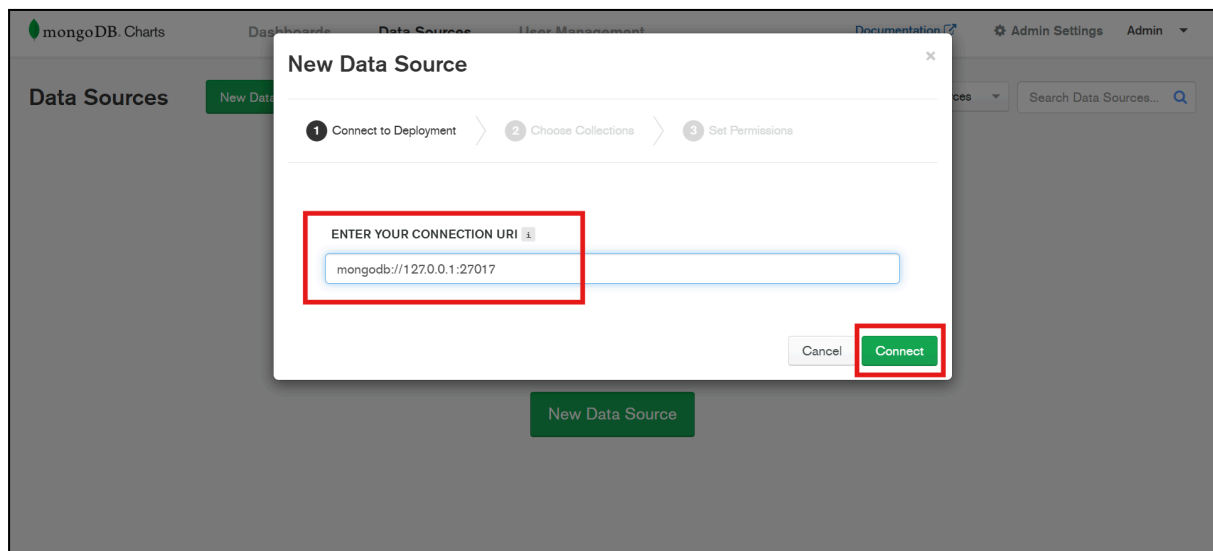   - **Password**: securepassword

Step 2: Choose collections to visualise your MongoDB data

1. Navigate to the **Data Sources** tab.
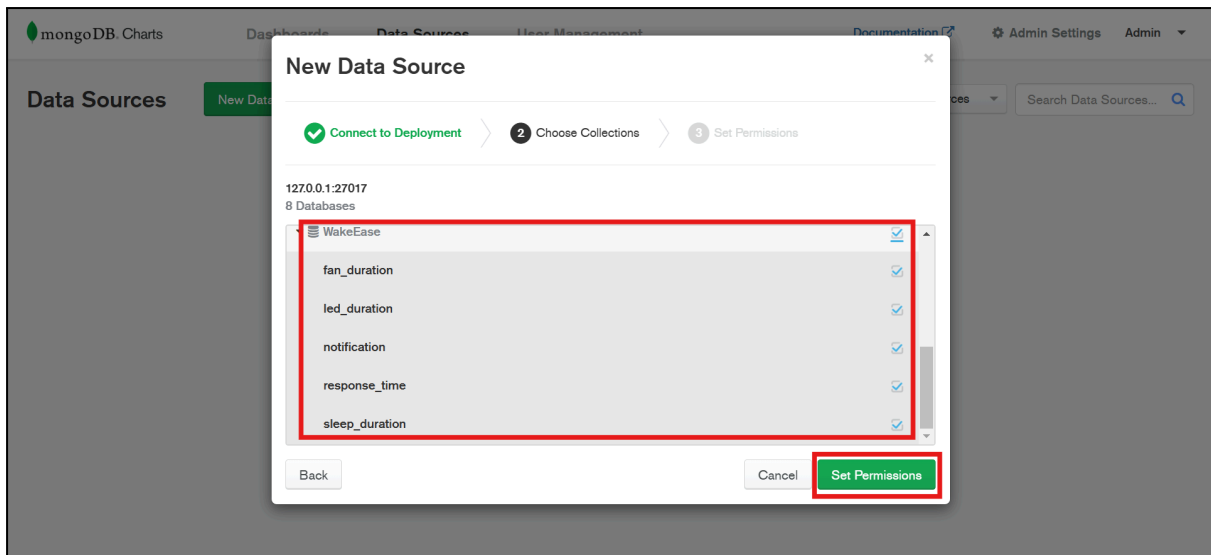2. Click the *New Data Source* button.
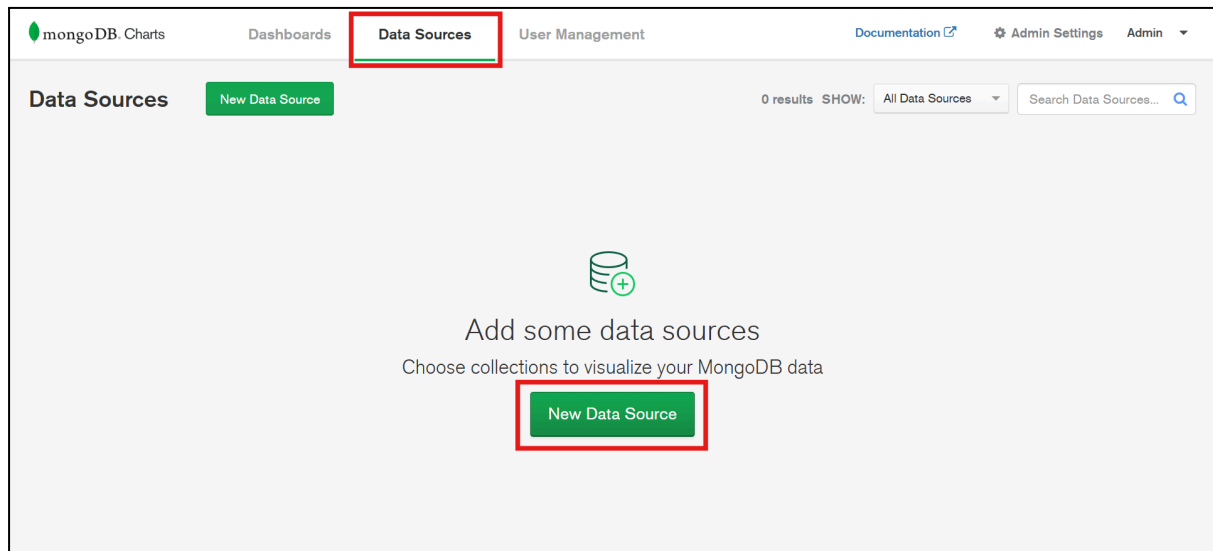
3. Enter your MongoDB connection URI then click the *Connect* button.

   - `mongodb://127.0.0.1:27017`

4. You will be redirected to **Connect to Deployement** tab. Scroll down and search for **WakeEase** database.
5. Select all collections in the database (there are five in total).
6. Click the *Set Permissions* button.

7. In the **Choose Collections** tab, toggle ON the "**Everyone > Viewer**" permission to allow viewers to see existing charts that use this data source.
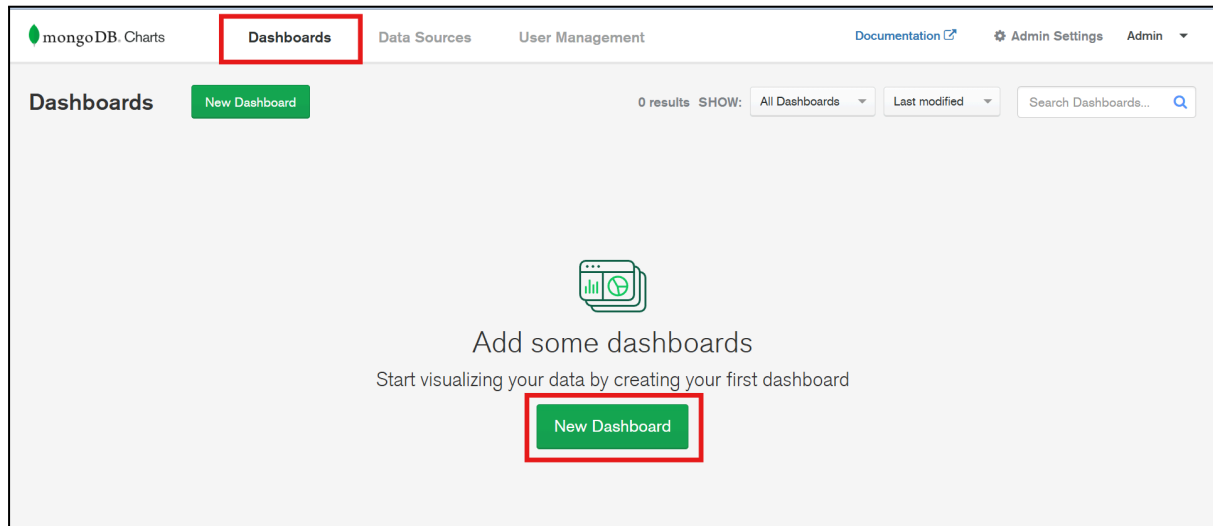
8. Click the ***Publish Data Source*** button.
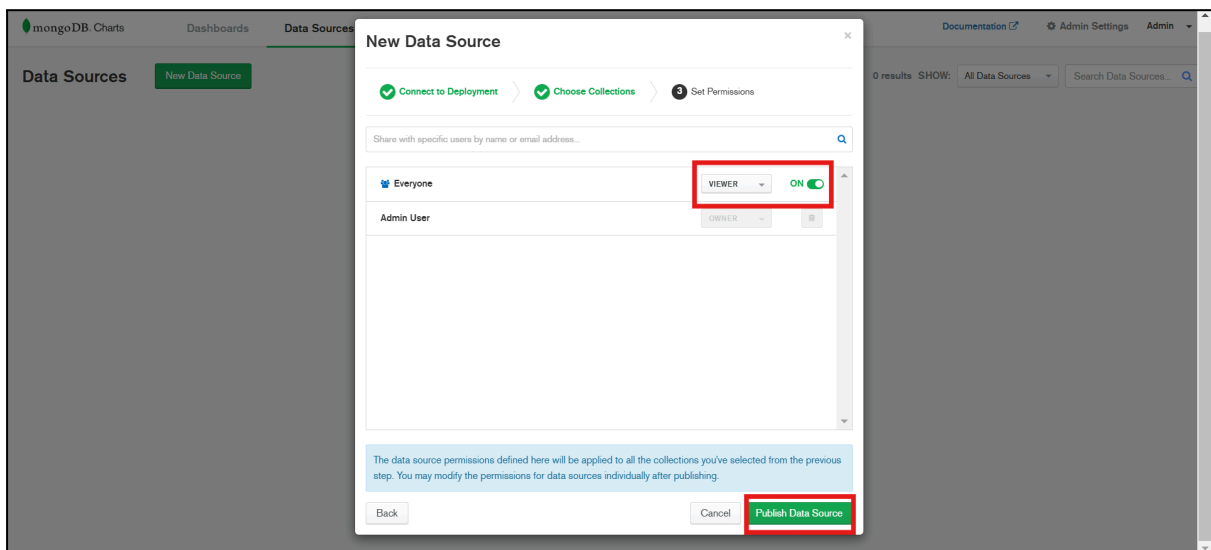
9. If successful, you will see the collections in the **WakeEase** database under the **Data Sources** tab. You can now proceed to create dashboards.
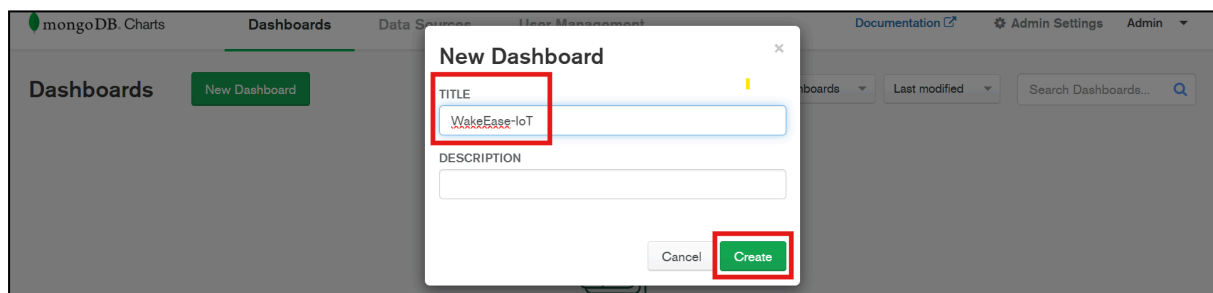
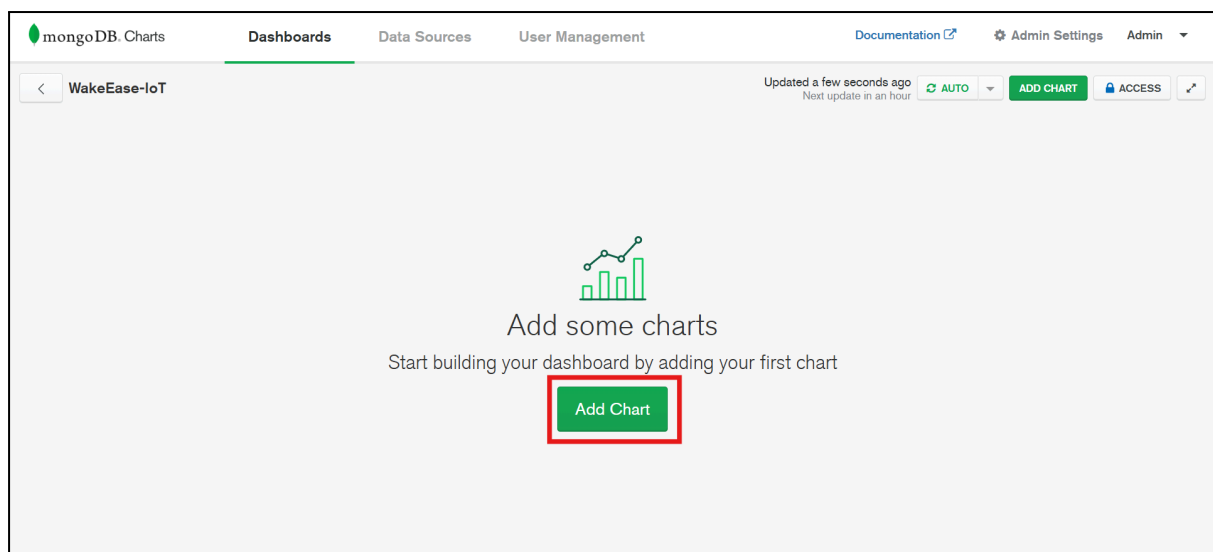## Step 3: Create dashboard and charts to visualise your MongoDB data

1. Navigate to the **Dashboards** tab

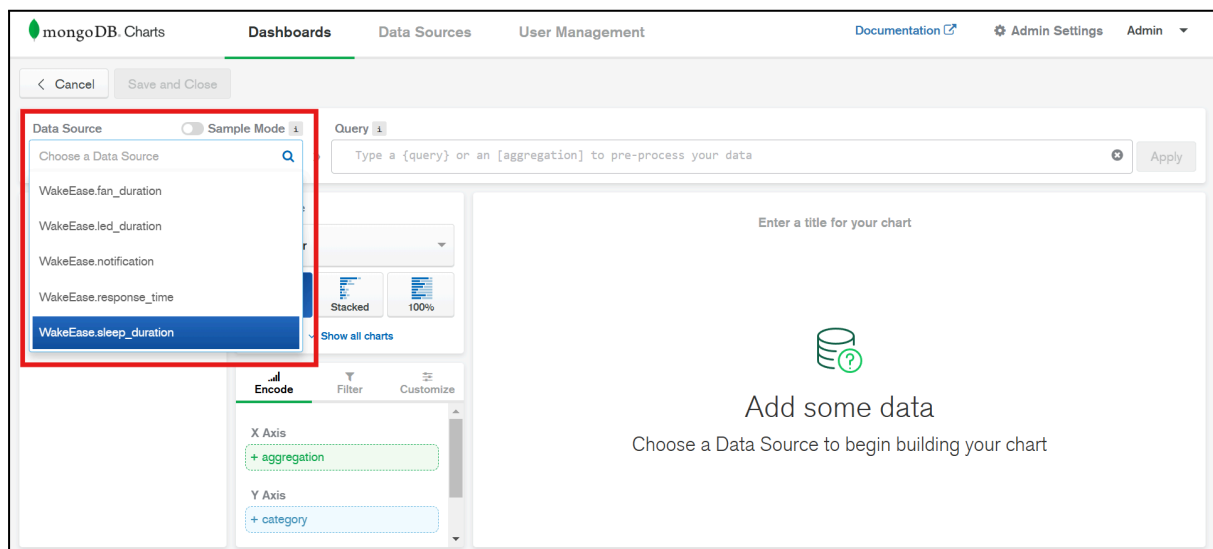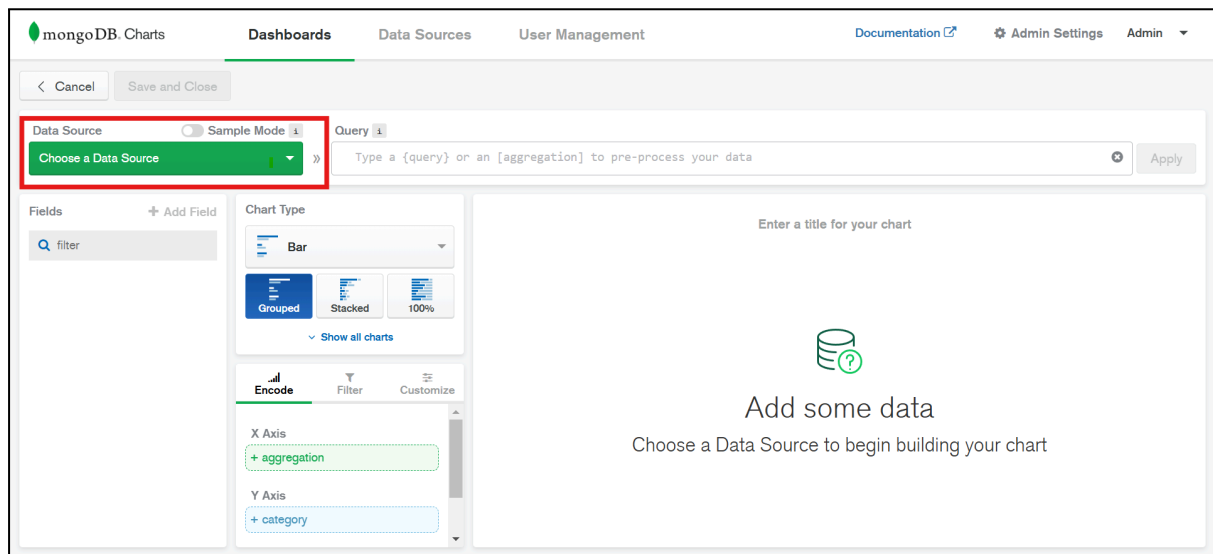2. Click the *New Dashboard* button

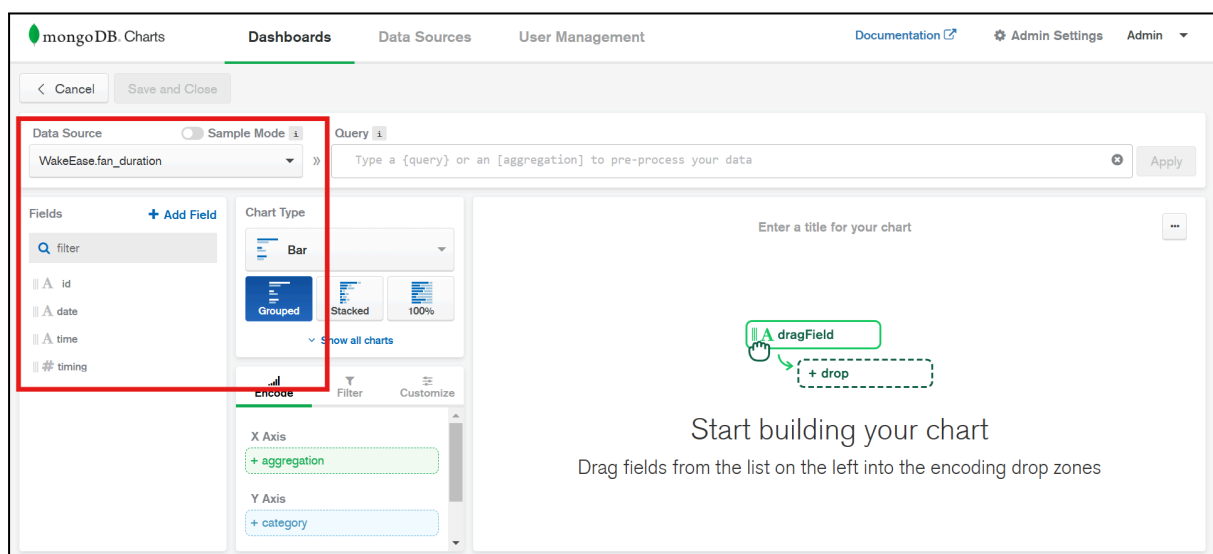3. Enter a title for your dashboard and click the *Create* button.

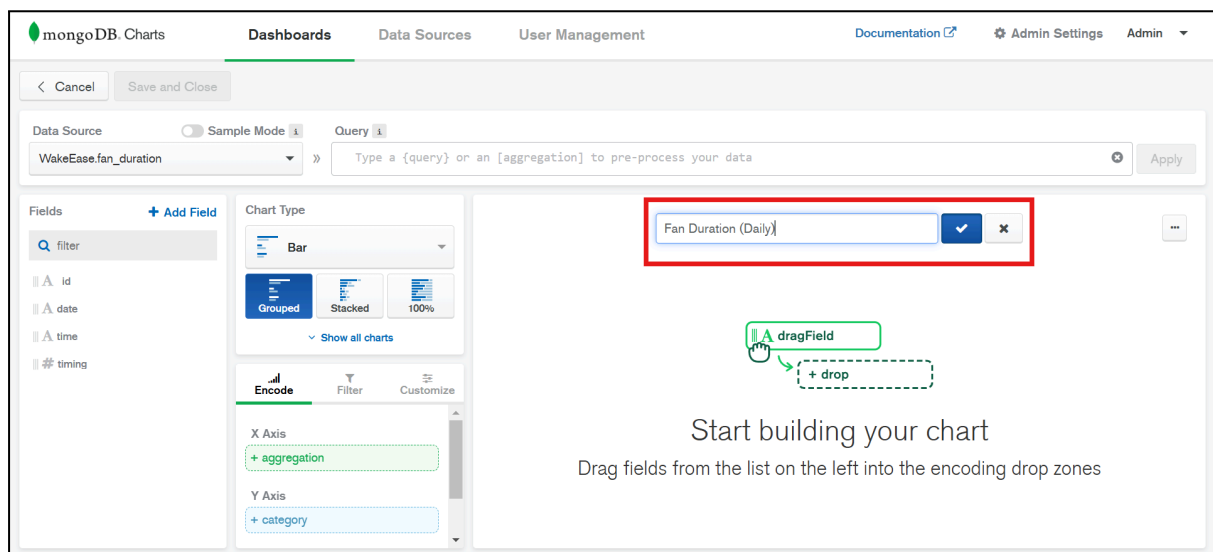4. You will be redirected to this page. Now, click the *Add Chart* button.

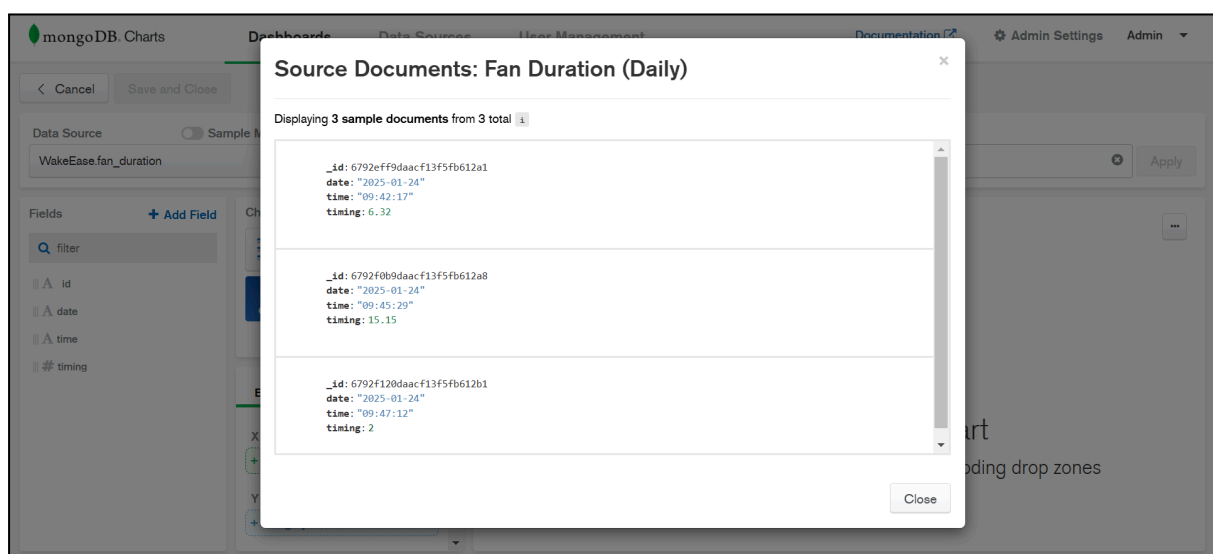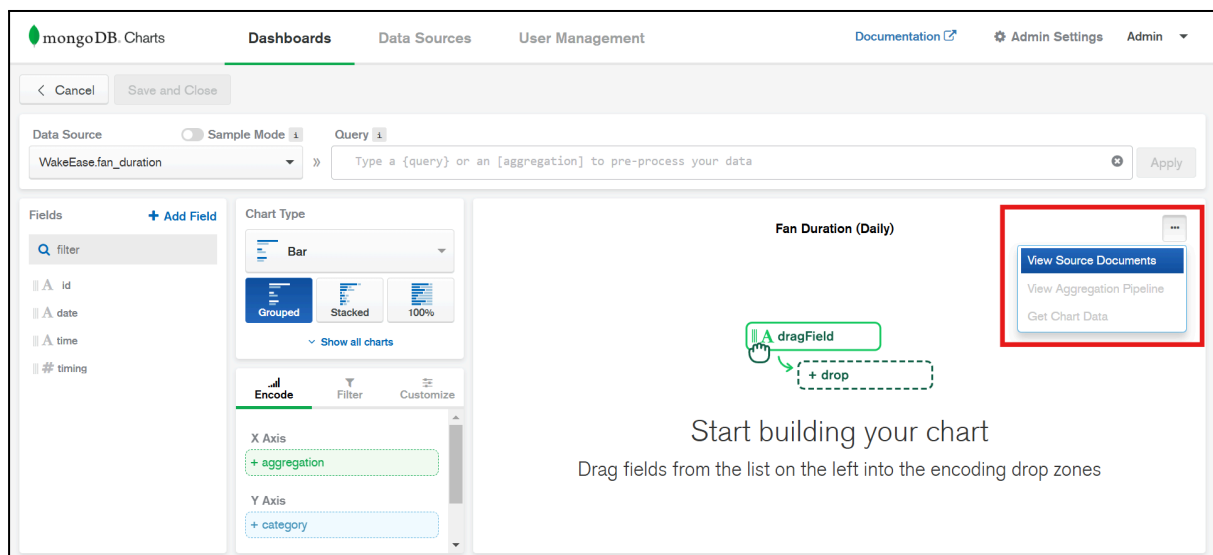5. Click the ***Choose a Data Source*** button to view the list of collections.

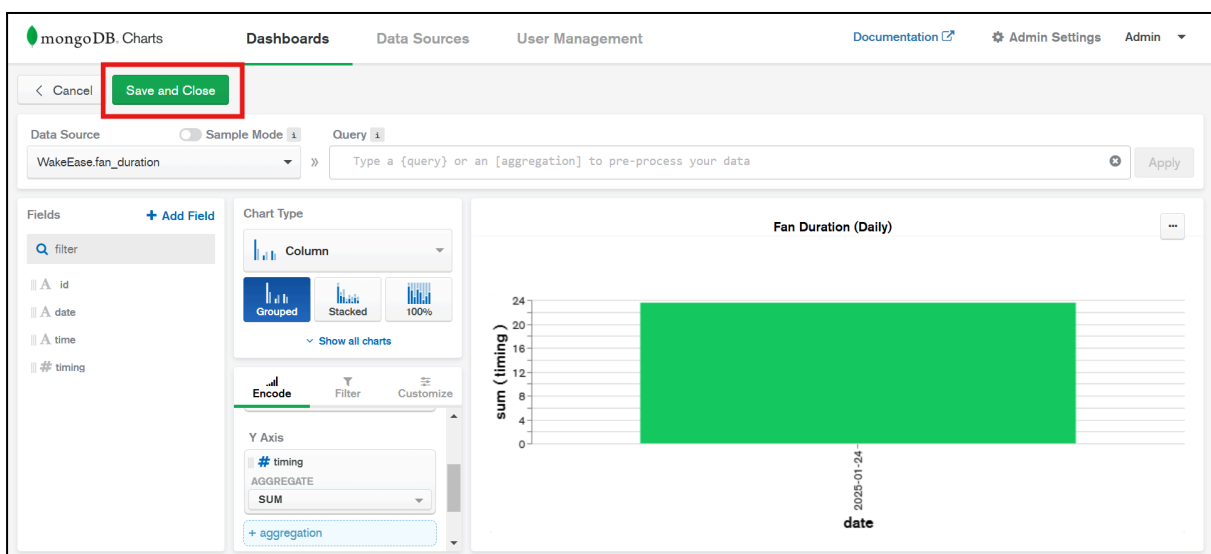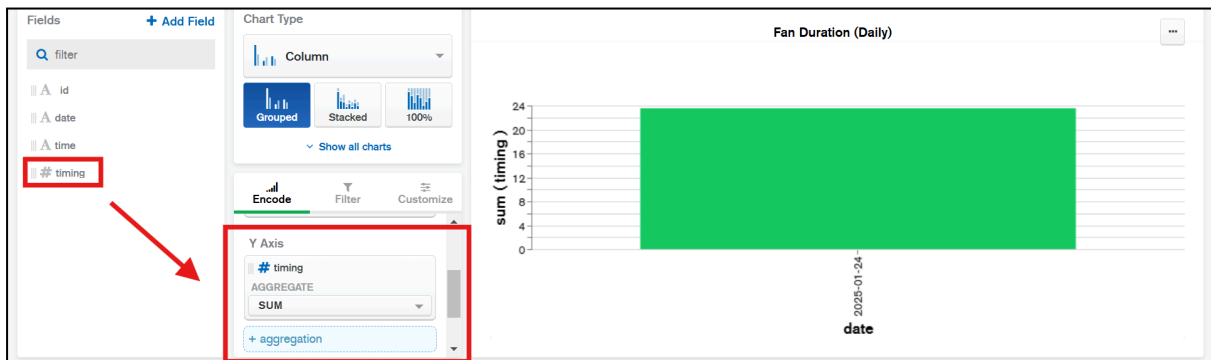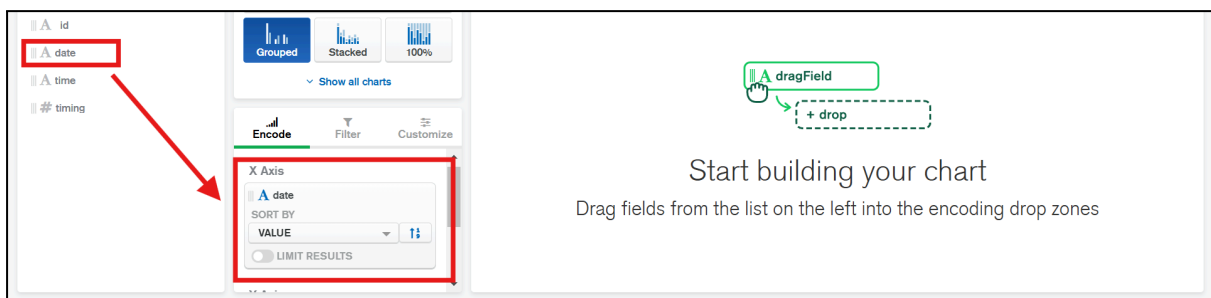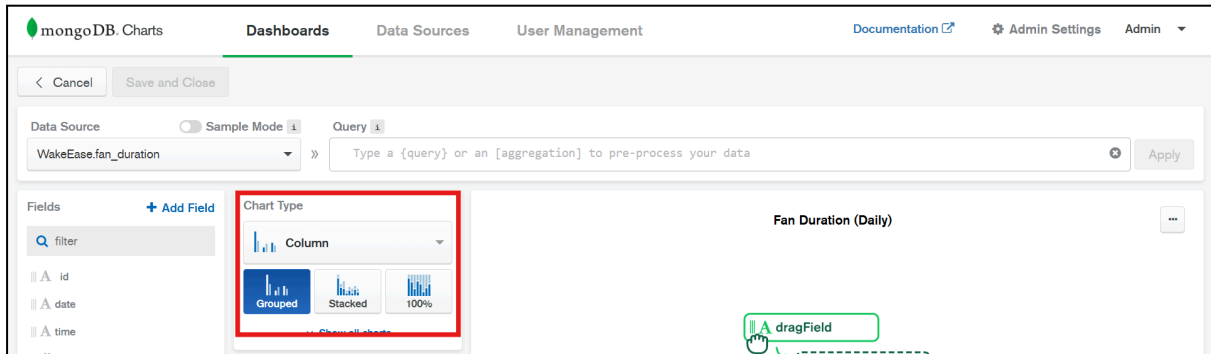6. Select **WakeEase.fan_duration** as the data source for your chart.

7. Add a title for the chart.

8. To view the source documents, click the three dots on the right side.

9.   Select "**Column**" as the chart type

10. Drag and drop "**date**" to the X-axis and "**timing**" to the Y-axis.

11. Click the Save and Close button.

12. You can now view the chart in the **Dashboards** tab. The chart updates in real time. Whenever there's a new reading for fan duration from the WakeEase IoT system, the chart will reflect the changes after reloading the page.
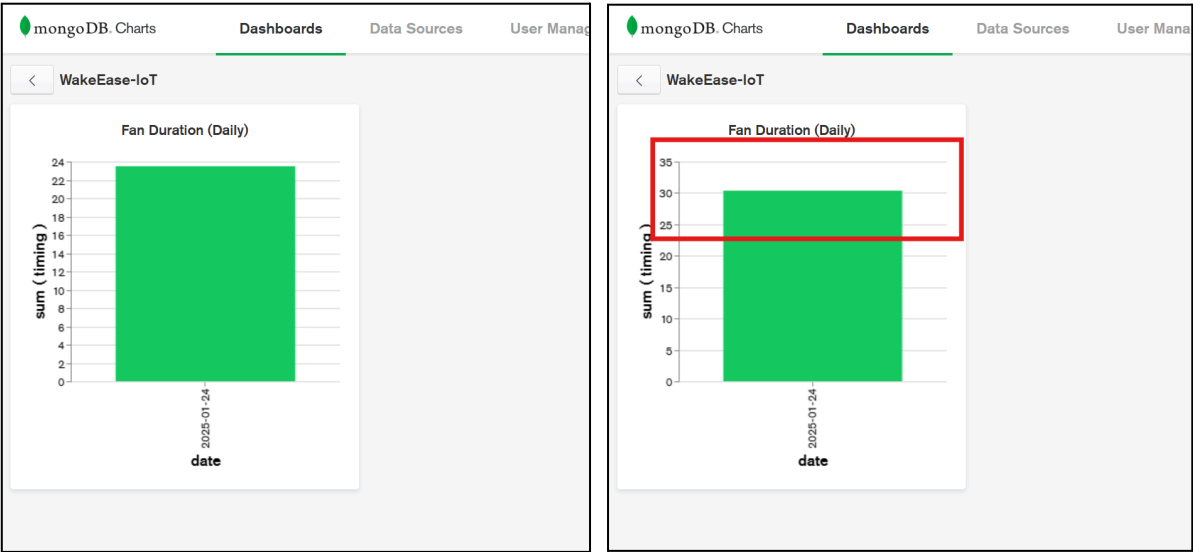
13. Repeat Steps 6 to 10 to create charts for other collections.