

DATA ANALYTICS

How do I move data from MySQL to BigQuery?

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In a market where streaming analytics is growing in popularity, it's critical to optimize data processing so you can reduce costs and ensure data quality and integrity. One approach is to focus on working only with data that has changed instead of all available data. This is where change data capture (CDC) comes in handy. CDC is a technique that enables this optimized approach.

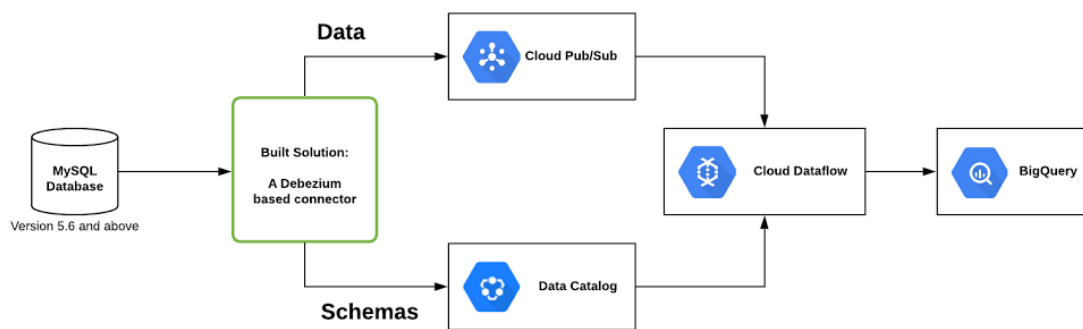


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and pushes updates to Pub/Sub (Google Cloud-native stream ingestion and messaging technology). A Dataflow pipeline then takes those updates from Pub/Sub and syncs the MySQL database with a BigQuery dataset.

This solution relies on [Debezium](#), which is an excellent open source tool for CDC. We developed a configurable connector based on this technology that you can run locally or on your own Kubernetes environment to push change data to Pub/Sub.



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Using the Dataflow CDC solution

Deploying the solution consists of four steps:

1. Deploy your database (nothing to do here if you already have a database)

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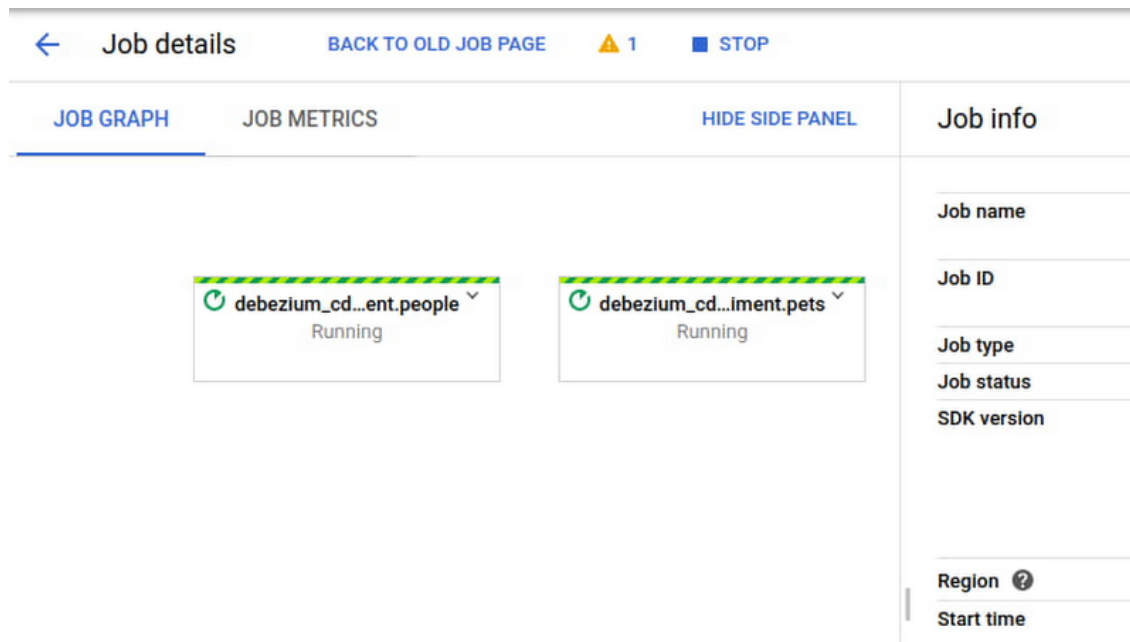
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With all of these pieces in place, you can launch the Dataflow pipeline to consume the change data from Pub/Sub and synchronize it to BigQuery tables. The Dataflow job can be launched from the command line. Here's what it looks like once you launch it:



Once the connector and pipeline are running, you just need to monitor their progress, and make sure that it's all going smoothly.

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