**ASSESSMENT 49**

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| **Date:** | 16-07-2020 | **Name:** | Sheela Golasangi |
| **Course:** | Coursera | **USN:** | 4AL16EC068 |
| **Topic:** | Industrial IoT on Google Cloud Platform | **Semester & Section:** | VIII  ‘B’ |
| **Github Repository:** | Sheela-Course |  |  |

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| **FORENOON SESSION DETAILS** |
| **REPORT**  **C:\Users\india\Pictures\Screenshots\Screenshot (1996).png**  **C:\Users\india\Pictures\Screenshots\Screenshot (1997).png**  **C:\Users\india\Pictures\Screenshots\Screenshot (1992).png**  **C:\Users\india\Pictures\Screenshots\Screenshot (1993).png**  **C:\Users\india\Pictures\Screenshots\Screenshot (1995).png**  **Analyzing Data with BigQuery**  **Introduction to the BigQuery Videos**  So far in this course you have learned to ingest and process IoT data. Now its time to analyze the data. This module focuses on BigQuery.  https://d3c33hcgiwev3.cloudfront.net/imageAssetProxy.v1/HL004_M4EeiAgQrXx6bp4g_dcaac14a09c1407a47c2760b01898daf_Screen-Shot-2018-11-28-at-10.04.35-AM.png?expiry=1595030400000&hmac=oIfIlTrqqVtj0ZbQCuJXsNquzEZbdoicm1ioLDHxoJk  I have included three videos in this module. The first is a high level overview that describes the motivation behind using BigQuery. The second is a video from the Data Engineer course. Evan Jones, a Technical Content Developer at Google, explains the nine fundamental features of BigQuery. The third is also by Evan and is from the "Exploring and Preparing your Data with BigQuery'. Both videos are from the "From Data to Insights with Google Cloud Platform" course on Coursera.  When you finish the reading, you can jump into a lab using BigQuery to analyze data from an IoT device. BigQuery Queries Overview By now you have watched the three videos on BigQuery; an overview of BigQuery, BigQuery fundamentals, and BigQuery queries. Before you begin the lab, let's just do a quick review on BigQuery queries.  To use BigQuery, your data needs to be in a BigQuery table. For IoT streaming data, you can store data in a BigQuery table using the template, "Pub/Sub to BigQuery". You need to either create a destination table or use template tables before you start streaming data.  Once the data is in a BigQuery dataset, you can query it. You can also include data from other sources  https://d3c33hcgiwev3.cloudfront.net/imageAssetProxy.v1/zlmkrPNOEeiixgqCUDoEfA_6e461af91582a51d55c62673c0ecd327_Screen-Shot-2018-11-28-at-12.46.59-PM.png?expiry=1595030400000&hmac=Hs2n0KhbqHQcW8J7CwJR-2D4yjCUdqrMoI2sNe1E8pk  **Two types of queries in BigQuery**  Interactive queries - where the query is executed as soon as possible. This is the default type of query.  Batch queries - queues each batch query on your behalf and starts the query as soon as idle resources are available, usually within a few minutes  **Query jobs**  Jobs are actions that BigQuery executes to load data, export data, query data, or copy data.  When you use the BigQuery web UI or CLI to load, export, query, or copy data, a job resource is automatically created, scheduled, and run. You can also programmatically create a load, export, query, or copy job. When you create a job programmatically, BigQuery schedules and runs the job for you.  Because jobs can potentially take a long time to complete, they execute asynchronously and can be polled for their status. Shorter actions, such as listing resources or getting metadata are not managed by a job resource.  **Saving and sharing queries**  BigQuery allows you to save queries. When you save a query, it can be private (visible only to you), shared at the project level (visible to project members), or public (anyone can view it).  **Query pricing**  Query pricing refers to the cost of running your SQL commands and user-defined functions. BigQuery charges for queries by using one metric: the number of bytes processed. You are charged for the number of bytes processed whether the data is stored in BigQuery or in an external data source such as Google Cloud Storage, Google Drive, or Google Cloud Bigtable.  You can also use audit logs to analyze query behavior and Stackdriver monitoring to view query metrics. Prepare for theBigQuery Lab This lab focuses on streaming data into BigQuery and analyzing it. ****The steps for publishing to BigQuery**** Create a Pub/Sub topic.  Create a bucket and folder to store data.  Create a registry.  Create a device.  Data streaming from the device will be published on the pub/sub topic and stored in BigQuery.  Create a BigQuery dataset and table.  Start a Dataflow job using a Google template: **Cloud PubSub to BigQuery.**  Query the data in BigQuery.  Reformat the data in BigQuery.  Clean up by stopping the Dataflow job. To get full points on this lab you must: 1. Stop the streaming pipeline job at the end of the lab.  2. Wait for the job to completely close before closing the lab.  Stopping a job when you are done is important when you are using your own account. Otherwise you can accrue unintentional costs. |

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| **Date:** | 16-07-2020 | **Name:** | Sheela Golasangi |
| **Course:** | Sales force | **USN:** | 4AL16EC068 |
| **Topic:** | Trailblazer Community Groups | **Semester & Section:** | VIII  ‘B’ |
| **Github Repository:** | Sheela-Course |  |  |
| **AFTERNOON SESSION DETAILS** | | | |
| C:\Users\User\Pictures\Screenshots\Screenshot (307).pngC:\Users\User\Pictures\Screenshots\Screenshot (308).pngC:\Users\User\Pictures\Screenshots\Screenshot (309).pngLearning Objectives After completing this unit, you’ll be able to:   * Find Trailblazer Community Groups. * Explain the value of attending Trailblazer Community Group meetings. * Start a Trailblazer Community Group.   Whether you’re new to the Salesforce ecosystem or you’ve been in the mix for years, there’s a community of customers ready to help you succeed. By the end of this module, you will know how to take full advantage of Trailblazer Community Groups, Salesforce Student Groups, and Trailblazer Community Conferences; you'll understand how they will help you create an incredible professional network, learn from peers and mentors, and blaze new trails in your career.  Are you ready to join a Trailblazer Community Group to meet peers who live in your city, work in similar roles and industries, and share your interests? Let’s get started. Community Groups Come in All Shapes and Sizes Trailblazer Community Groups are split into three pillars: Role, Industry, and Ohana.  Whether you’re a Salesforce Developer looking to connect with peers in your city, a Salesforce Admin hoping to expand your skills and network, or a university student aiming to build your tech and business skills with Trailhead, Trailblazer Community Groups have your back. Empower the Next Generation of TrailblazersLearning Objectives After completing this unit, you’ll be able to:   * Explain what a Salesforce Student Group is. * Help Student Groups near you. * Start a Student Group.  Introduction By 2022, Salesforce is expected to create over 3.3 million jobs worldwide.  This is a huge opportunity for the next generation. Now is the time for our Trailblazer Community to truly inspire and empower students. Let’s take a look at our Salesforce Student Groups and show you how students can start skilling up to position themselves for a Salesforce job right out of college. What is a Student Group? Student Groups help future Trailblazers skill up on Salesforce and learn how to build their careers in the Salesforce ecosystem. Student Group meetings, hosted at least once per semester, help group members:   * Learn new technical or business skills to help build their resume. * Support each other while earning badges with Trailhead. * Get career advice and find mentors within Salesforce and the Trailblazer Community. * Ask questions about working in the Salesforce ecosystem. * Build their professional network to help find jobs.  Discover Community ConferencesLearning Objectives After completing this unit you’ll be able to:   * Explain what a Trailblazer Community Conference is. * Find a Trailblazer Community Conference near you.  Community Conferences at a Glance Trailblazer Community Conferences are an opportunity to learn from peers, build your network, and get inspired to be your best at 1-2 day conferences. Community Conferences are solely organized and hosted by customers like you; from the venue to the content to the speakers, every single aspect of these conferences are organized with the local community in mind.  What can you learn at Community Conferences? Content is typically a mix of technical knowledge and soft skills. And while some conferences focus on a specific role, others span admin, developer, business user, and executive learning topics. In some cases, the content is delivered in the region’s native language.  Community Conferences aren’t just for learning; they also include opportunities to have fun or give back. Many of them incorporate networking and exciting fundraising activities, such as surfing, skiing, dinners, and parties.  Every Community Conference has its own flavor! Here are a few examples:  Punta Dreamin’ is the first Community Conference in Latin America and offers speakers and sessions in both Spanish and English. It takes place in scenic Punta Del Este, Uruguay, and encourages attendees to take a deep dive into both the content and the warm waters off the coast. | | | |