**ASSESSMENT 48**

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| **Date:** | 15-07-2020 | **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 (1819).png**  **C:\Users\india\Pictures\Screenshots\Screenshot (1824).png**  **C:\Users\india\Pictures\Screenshots\Screenshot (1827).png**  **Creating IoT Data Streaming Pipelines**  **Introduction to Pipelines** Pipelines Pipelines manage data after it arrives on Google Cloud Platform, similar to how parts are managed on a factory line.  https://d3c33hcgiwev3.cloudfront.net/imageAssetProxy.v1/GtRCSdCWEeiCHQ6zDlwY1A_b963590dc534bf6ea0760bff0dca3758_Screen-Shot-2018-10-15-at-9.19.13-AM.png?expiry=1595030400000&hmac=YQ9j44cB4HfjFPfaRh9o5O7JgAJEeOeYEcH32nfNJFA   * **Transforming data**. You can convert the data into another format, for example, converting a captured device signal voltage to a calibrated unit measure of temperature * **Aggregating and computing data**. By combining data you can add checks, such as averaging data across multiple devices to avoid acting on a single device or to ensure you have actionable data if a single device goes offline. By adding computation to your pipeline, you can apply streaming analytics to data while it is still in the processing pipeline. * **Enriching data**. You can combine the device-generated data with other metadata about the device, or with other datasets, such as weather or traffic data, for use in subsequent analysis. * **Moving data**. You can store the processed data in one or more final storage locations.  Cloud Dataflow Cloud Dataflow is built to perform all of these pipeline tasks on both batch and streaming data. With native connectors to both Cloud Pub/Sub and a variety of eventual storage destinations, or sinks, Cloud Dataflow is a fully managed multitool for data processing.  In this module, you create a streaming IoT data pipeline. You have all the pieces necessary to complete the lab: Cloud Pub/Sub, Cloud IoT Core, Cloud Storage, and Cloud Dataflow. Now you have an opportunity to put it all together. Introduction to the Dataprep Demo Next is a video demonstrating an integrated data pipeline. The video is from 2017, so some of the user interfaces in the video might be unfamiliar to you. That is okay; our main goal is to understand how Cloud Dataprep by Trifacta fits into an integrated data pipeline.  We are introducing it at the end of the course, when it is actually in the middle of the pipeline. Using the output from Cloud Dataprep is beyond the scope of this course; it will be included in an advanced IoT course.  **The Dataprep integrated pipeline**  https://d3c33hcgiwev3.cloudfront.net/imageAssetProxy.v1/OU34vvNOEeiAgQrXx6bp4g_2faa9d773f0f0f593be6ba9f7e556370_Screen-Shot-2018-11-28-at-12.42.39-PM.png?expiry=1595030400000&hmac=6PwD0CU2NrsibFuZ6Fp9vCs4dvEyAnGWv2b1RxaKG1c  In the video, the data pipeline collects data from New York City taxis using Cloud Pub/Sub and a Dataflow pipeline. The data is visualized as an overlay to a map of New York City, with green dots representing taxis. BigQuery is used to gather and explore the data set. It quickly becomes apparent that the data streaming in contains some errors and anomalies. If you are going to use it with Cloud ML Engine, you'll have to clean it up.  This is where Cloud Dataprep resides in the pipeline. You create recipes to transform and clean the data in preparation for Cloud ML Engine. The recipes will work on historical data and all data streaming into the pipeline. When the data is in a format acceptable to Cloud ML Engine, it will be used to generate, train, or update the ML model.  **Introduction to Google Data Studio**  Google Data Studio is a data-reporting and dashboarding solution. It is designed to help you turn your data into customized reports that are easy to read and share.  Data Studio helps you perform three tasks to create your reports:   * Connect to your data: Create a connection between a dataset and a report. * Visualize your data: Use tools to generate visual reports about your data. * Share your data: Allow others to access your reports.   In this lesson there are some readings and videos about Data Studio. Then there is a lab that I think you will find very interesting. The lab uses data from a public Pub/Sub topic. You create a subscription to the topic and a pipeline from Cloud Pub/Sub to BigQuery. Then you use the data to create a visual report about the data and share it. |

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| **Date:** | 15-07-2020 | **Name:** | Sheela Golasangi |
| **Course:** | Sales force | **USN:** | 4AL16EC068 |
| **Topic:** | Career Development Planning | **Semester & Section:** | VIII  ‘B’ |
| **Github Repository:** | Sheela-Course |  |  |
| **AFTERNOON SESSION DETAILS** | | | |
| C:\Users\User\Pictures\Screenshots\Screenshot (294).pngC:\Users\User\Pictures\Screenshots\Screenshot (295).pngC:\Users\User\Pictures\Screenshots\Screenshot (296).pngAssess YourselfLearning Objectives After completing this unit, you’ll be able to:   * List the steps for creating a career plan. * Identify your unique strengths, skills, and talents and what’s important to you. * Describe the different elements of self-assessment.  A Quick Introduction to Career Development Whether you’re just starting out in your career or already have a few years of experience under your belt, it can be helpful to step back and think about your career plan. Career planning is not a one-time event; it’s an ongoing process to revisit throughout your career as your priorities and interests shift and change. Explore Career OptionsLearning Objectives After completing this unit, you’ll be able to:   * Describe the different job roles within the Salesforce ecosystem. * Research potential career options that align to your interests. * Identify skills and requirements for your target career goal.  Researching Career Pathways Now that you’ve looked inward to assess your current skills, interests, and values, it’s time to expand your view outward and explore different pathways that interest you.  Perhaps you already have some ideas about roles that interest you. Perhaps you’ve thought about consulting, but aren’t sure what a day in the life is like for that role. Or perhaps there’s a specific industry that interests you, like healthcare or finance, but you’re not sure what the different roles are within that industry. Whatever your starting point, this is an opportunity to cast a wide net to see what options interest you.  Here are a few ways to research different career pathways.   * Search job descriptions with keywords related to your interest. * Talk to others who are already in roles you’re interested in. * Attend industry events and meetups. * Take people in your network out for coffee or lunch to learn more about other functions, teams, and roles. * Shadow someone doing what you’d like to do in the future. * Look for opportunities to be part of a special project to learn new skills.  Labor Market Trends One thing to consider as you research career options is the labor market demand for specific skills and roles. What are the jobs and industries experiencing the highest growth, and where are there more opportunities?  For example, Burning Glass, Inc., found that over 300,000 new jobs were created in 2015 that specifically required Salesforce skills. These roles spanned multiple functional areas, including sales, IT, marketing, business management, and operations. In addition, 2 of the 10 best jobs on Indeed’s Best Jobs of 2017 list were Salesforce-specific roles.  As businesses embrace the future of mobile, big data, IoT, and AI, Salesforce skills are becoming some of the hottest skills to have on your resume, and that demand is growing. In fact, [according to IDC](https://www.salesforce.com/blog/2017/10/salesforce-economy-idc-study-2022), Salesforce and our broader ecosystem will create nearly 2 million jobs over the next 5 years.  Knowing where the demand for a specific skill set, such as Salesforce skills, is strong can give you a starting point for researching different career options that draw upon those skills.  Here are some places to look for labor market information.   * Occupational Outlook Handbook * Glassdoor’s 50 Best Jobs List * Burning Glass Research   There are three main areas to consider in developing your career plan.   1. **Learning:** what are the skills you need to acquire, and where can you learn them? 2. **Earning:** what credentials do you need for this role and how can you demonstrate your skills to employers? 3. **Connecting:** what are ways to connect and network with others in the field?  Learning For most skills and roles, you can find many options for learning—from self-paced online learning to instructor-led classes, events, and even formal degree programs.  What type of learning you choose to do depends on your time, learning style, and budget. Sometimes what works best for you is a combination of different learning programs. There’s no one right way. It’s up to you to choose the adventure that works best for you.  **Learn Online**  One of the best ways to skill up for Salesforce career paths is through Trailhead—the fun, free, hands-on ways learn.  If you’re new to Trailhead, here are a few recommendations on where to start.   |  |  |  | | --- | --- | --- | | **If you want to be a...** | **Start with...** | **Next steps...** | | Salesforce developer | Developer Beginner (trail) Build a Conference Management App (project) | Developer Intermediate (trail)  Develop for Lightning Experience (trail)  Build an Automated Workshop Management System (project) | | Salesforce administrator | Admin Beginner (trail)  Build a Suggestion Box App (project) | Admin Intermediate (trail) Admin Advanced (trail) | | Sales manager | Grow Faster with CRM (trail)  Sell Lightning Fast with Sales Cloud (trail) | Integrate Outlook and Gmail with Salesforce (module)  Drive Sales with Operational Excellence (trail) | | Marketing manager | Personalize Your Customer Journeys with Marketing Cloud (trail) |  | | Business analyst | Explore with Analytics (trail)  Admin Beginner (trail) |  | | | | |