

Practical GCP-DE Reliable Test Blueprint & Leader in Qualification Exams & Hot GCP-DE: Data Engineer

CS2002 Practical 3

Introduction

One of the important parameters in determining the travel time of a contaminant is known as hydraulic conductivity. Due to its variance, reliable testing is required to test hydraulic conductivity such as the use of aquifer pumps. For civil design, it is important to know the hydraulic conductivity and water table contour distribution in an aquifer regarding pumping schemes from wells. In this practical, a rainfall simulation apparatus was used to investigate wells and their affect on the water table. The apparatus resembles a homogenous, isotopic, unconfined aquifer lying on an impermeable layer where water drawing from a well can be simulated.

Background Theory

The Theim Equation

The Theim equation is used for steady state flow in an unconfined aquifer. The equation is as follows:

$$s_1 - s_2 = \frac{Q_0}{2\pi kH} \log_n \left(\frac{r_2}{r_1} \right) \quad (1)$$

Where k = hydraulic conductivity, s_1 = drawdown of the water table at a distance of r_1 from the well, s_2 = drawdown of the water table at a distance of r_2 from the well, Q_0 = pumping from the well, H = elevation of the water table in a place where not affected by the well, r_1 = radial distance from well to selected manometer, r_2 = radial distance from well to manometer.

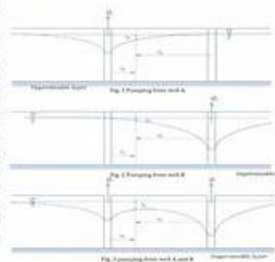
The Theim equation can be rearranged to find K as follows

$$K = \frac{Q_0}{2\pi H(s_1 - s_2)} \log_n \left(\frac{r_2}{r_1} \right) \quad (2)$$

The Superposition Theorem

The concept of superposition is a very strong concept in many engineering disciplines as well as in ground water hydrology. In this experiment it was intended to validate the superposition theorem using a rainfall simulator. The superposition principle states that for all linear systems, the overall response is the sum of the individual responses. This can be applied to ground water hydrology however it must be assumed that the ground water is under steady state conditions. Therefore, superposition in ground water hydrology when considering two wells, as shown in Figures 1-3, states that the drawdown value when both wells A and B are being pumped can be calculated as the sum of the drawdown values calculated when water was pumped from well A and B individually. The superposition theorem demonstrates that under steady state:

$$s_3 = s_1 + s_2 \quad (3)$$



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Google Data Engineer Sample Questions (Q27-Q32):

NEW QUESTION # 27

You architect a system to analyze seismic data.

a. Your extract, transform, and load (ETL) process runs as a series of MapReduce jobs on an Apache Hadoop cluster. The ETL process takes days to process a data set because some steps are computationally expensive. Then you discover that a sensor calibration step has been omitted. How should you change your ETL process to carry out sensor calibration systematically in the future?

- A. Introduce a new MapReduce job to apply sensor calibration to raw data, and ensure all other MapReduce jobs are chained after this.
- **B. Modify the transform MapReduce jobs to apply sensor calibration before they do anything else.**
- C. Add sensor calibration data to the output of the ETL process, and document that all users need to apply sensor calibration themselves.
- D. Develop an algorithm through simulation to predict variance of data output from the last MapReduce job based on calibration factors, and apply the correction to all data.

Answer: B

NEW QUESTION # 28

What Dataflow concept determines when a Window's contents should be output based on certain criteria being met?

- **A. Triggers**
- B. OutputCriteria
- C. Windows
- D. Sessions

Answer: A

Explanation:

Triggers control when the elements for a specific key and window are output. As elements arrive, they are put into one or more windows by a Window transform and its associated WindowFn, and then passed to the associated Trigger to determine if the Window's contents should be output.

Reference:

<https://cloud.google.com/dataflow/java-sdk/JavaDoc/com/google/cloud/dataflow/sdk/transforms/windowing/Triggers>

NEW QUESTION # 29

You need to deploy additional dependencies to all of a Cloud Dataproc cluster at startup using an existing initialization action. Company security policies require that Cloud Dataproc nodes do not have access to the Internet so public initialization actions cannot fetch resources. What should you do?

- A. Copy all dependencies to a Cloud Storage bucket within your VPC security perimeter
- B. Deploy the Cloud SQL Proxy on the Cloud Dataproc master
- **C. Use Resource Manager to add the service account used by the Cloud Dataproc cluster to the Network User role**
- D. Use an SSH tunnel to give the Cloud Dataproc cluster access to the Internet

Answer: C

NEW QUESTION # 30

You work for a global shipping company. You want to train a model on 40 TB of data to predict which ships in each geographic region are likely to cause delivery delays on any given day. The model will be based on multiple attributes collected from multiple sources. Telemetry data, including location in GeoJSON format, will be pulled from each ship and loaded every hour. You want to have a dashboard that shows how many and which ships are likely to cause delays within a region. You want to use a storage solution that has native functionality for prediction and geospatial processing. Which storage solution should you use?

- A. Cloud Bigtable
- B. Cloud Datastore
- **C. BigQuery**
- D. Cloud SQL for PostgreSQL

Answer: C

NEW QUESTION # 31

You are developing a software application using Google's Dataflow SDK, and want to use conditional, for loops and other complex programming structures to create a branching pipeline. Which component will be used for the data processing operation?

- **A. Transform**
- B. Sink API
- C. PCollection
- D. Pipeline

Answer: A

Explanation:

In Google Cloud, the Dataflow SDK provides a transform component. It is responsible for the data processing operation. You can use conditional, for loops, and other complex programming structure to create a branching pipeline.

Reference: <https://cloud.google.com/dataflow/model/programming-model>

NEW QUESTION # 32

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




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