Mindluster Platform

About the course Database fundamentals for beginners

Database fundamentals course, in this course we will learn about Database Fundamentals, providing a solid foundation in the essential concepts and techniques for managing and working with databases. Databases are crucial for storing, organizing, and retrieving data efficiently, making them a cornerstone of modern applications and information systems. The course covers key topics such as database design, understanding relational models, normalization, and the use of SQL (Structured Query Language) for querying and managing databases. You'll explore different types of databases, including relational and non-relational systems, and learn how to create and manage database schemas, tables, and relationships. Additionally, the course delves into data integrity, indexing, and optimization techniques to ensure efficient data retrieval and management. You'll also gain insights into database security and backup strategies to protect and maintain data integrity. By the end of this course, you will have a comprehensive understanding of database fundamentals, equipping you with the skills needed to design, implement, and manage databases effectively. Whether you're a beginner or looking to refresh your knowledge, this course will provide the foundational knowledge necessary for working with databases in various contexts.

Computer Science Category's Courses

Course Lesson(32)

Lesson 1 : **Migrating On premises MySQL Using a Continuous Database Migration Service Job**

Lesson 2 : **Migrating MySQL User Data When Running Database Migration Service Jobs GSP861**

Lesson 3 : **Migrating to AlloyDB from PostgreSQL Using Database Migration Service GSP1084**

Lesson 4 :
Migrating to Cloud SQL from Amazon RDS for MySQL Using Database Migration Service GSP859

Lesson 5 : **Migrating to AlloyDB from PostgreSQL Using PostgreSQL Tools GSP1085**

Lesson 6 :
Migrating an application and data from Apache Cassandra to DataStax Enterprise GSP707

Lesson 7 :
Build and Execute MySQL PostgreSQL and SQLServer to Data Catalog Connectors GSP814

Lesson 8 :
Scaling Microservices Applications Migration to Redis Enterprise on Google Cloud GSP1177

Lesson 9 : **Deploying an Open Source Cassandra Database using the GCP Marketplace GSP704**

Lesson 10 : **Online Data Migration to Cloud Spanner using Striim GSP703**

Lesson 11 : **Using OpenTSDB to Monitor Time Series Data on Cloud Platform GSP142**

Lesson 12 : **Cloud Spanner Database Fundamentals GSP1048**

Lesson 13 : **Cloud Spanner Loading Data and Performing Backups GSP1049**

Lesson 14 : **Cloud Spanner Defining Schemas and Understanding Query Plans GSP1050**

Lesson 15 : **Deploy a Modern Web App connected to a Cloud Spanner Instance GSP1051**

Lesson 16 : **Accelerating Analytical Queries using the AlloyDB Columnar Engine GSP1087**

Lesson 17 : **Reconciling Account Data with Cloud Spanner Change Streams GSP1097**

Lesson 18 : **Cloud Spanner Qwik Start GSP102**

Lesson 19 : **Importing Data to a Firestore Database GSP642**

Lesson 20 : **AlloyDB Database Fundamentals GSP1083**

Lesson 21 : **Administering an AlloyDB Database GSP1086**

Lesson 22 : **Running Queries and Transactions SCBL006**

Lesson 23 :
Scanning User generated Content Using the Cloud Video Intelligence and Cloud Vision APIs GSP138

Lesson 24 : **VPC Flow Logs Analyzing Network Traffic GSP212**

Lesson 25 : **VM Migration Planning GSP616**

Lesson 26 : **Streaming HL7 to FHIR Data with Dataflow and the Healthcare API GSP894**

Lesson 27 : **Creating a Data Warehouse Through Joins and Unions GSP413**

Lesson 28 : **Data Catalog Qwik Start GSP729**

Lesson 29 : **Bracketology with Google Machine Learning GSP461**

Lesson 30 : **Analytics as a Service for Data Sharing Partners GSP1042**

Lesson 31 : **Visualizing Data with Google Data Studio GSP197**

Lesson 32 : **Prepare Data for ML APIs on Google Cloud Challenge Lab GSP323**

Related courses

Linear Algebra for Computer Scientists

Insertion Sort

Bubble Sort

GCSE Computer Science

Random Access Memory

Binary Trees

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