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AWS Data Warehousing Course Content

Introduction to Data Warehouse

- What is Data Warehouse

- Data Warehouse Modeling

- What is Meta Data and Data Mart

- Operational Data Stores

- OLAP Technology

- Dimensional Modeling

- What is star schema

- Data Warehouse Tools

- Database Parallelism

Data Warehouse Architecture

- Basic Data Warehouse Architecture

- End-User Access Tools

- Data Warehouse Architecture with Staging Area

- Data Warehouse Architecture with Data Marts and Staging Area

- Data Warehouse Architecture Properties

- Types of Data Warehouse Architectures

Amazon Web Services Overview

- What is AWS

- Identity and Access Management

- AWS Storage Services

- AWS EC2

- Database and Application Services

- AWS Key Features

AWS Data Warehouse

- Data Warehousing on AWS

- How to implement a data warehouse on AWS

- Deploy a Data Warehouse on AWS

- Amazon Redshift

- The building of data warehouse using Amazon Redshift

- Advantages of AWS Data Warehouse

Amazon Redshift

- Introduction to Amazon Redshift

- How to set up Amazon Redshift

- Configuring Security Groups

- Use of Amazon Redshift Cluster

- Key Features of Amazon Redshift

Deploy a Data Warehouse

- AWS Data Warehouse

- How to deploy a Data Warehouse using Amazon Redshift

- Analyzing data by Data Warehousing

- Creating an Amazon Redshift Cluster

- Configuring Amazon Redshift Cluster

Modernizing Data Warehouse

- What is a Modern Data Warehouse

- IAM Roles

- DNS Names

- Amazon Route 53

- Amazon VPC

- Data Warehouse Management using Amazon Redshift

Amazon DynamoDB

- Introduction to Amazon Dynamo Database

- How to set up and access Amazon DynamoDB

- How to program with Amazon DynamoDB

- Point-in-time Recovery

- What is NoSQL Workbench

- DynamoDB Transactions

- Amazon DynamoDB Resources

Amazon S3

- What is Amazon S3

- Amazon S3 Batch Operations

- What are Buckets and Objects

- AWS SDKs

- Storage Class Analysis

- Monitoring and Error Handling
- Server Access Logging

Enterprise Data Warehousing on AWS

- What is a data warehouse
- Enterprise Data Warehousing
- Key features of Enterprise Data Warehousing

Amazon EMR

- Amazon EMR Overview
- Amazon EMR Architecture
- Use of EMR Notebooks
- How to configure clusters
- How to Manage and Troubleshoot a Cluster

Amazon Redshift Cluster

- Amazon Redshift Overview
- Managing Clusters using Amazon Redshift API and CLI
- How to monitor Cluster Performance
- How to query a Database