

Course Outline

This course is divided into three modules. It is recommended that you set a goal for yourself to complete the modules (for example, one module per week).

Module 1: IBM Cognos Analytics for Data Analysis and Visualization

In this module, you'll fast-track your data analytics learning and gain hands-on data analytics experience using IBM Cognos Analytics. After registering with Cognos Analytics, you'll explore the platform's capabilities by creating visualizations, building a simple dashboard, and creating interactive and advanced dashboards using Cognos Analytics.

Module 2: Data Visualizations and Dashboards with Google Looker Studio

In this module, you'll start with navigating the Looker Studio interface. You will then create reports, connect with data sources, and add visualizations to a report. Additionally, you will explore advanced dashboard capabilities and configure Google Looker based on your requirements.

Module 3: Final Project, Final Exam, and Course Wrap-Up

In this module, you will complete the final assignment, which will be graded by your peers. For this final assignment, you will create visualizations and add them to a dashboard using Cognos Analytics or Google Looker Studio.

Introduction to Analytics and Business Intelligence (BI) Tools

Objectives

After watching this video, you will be able to:

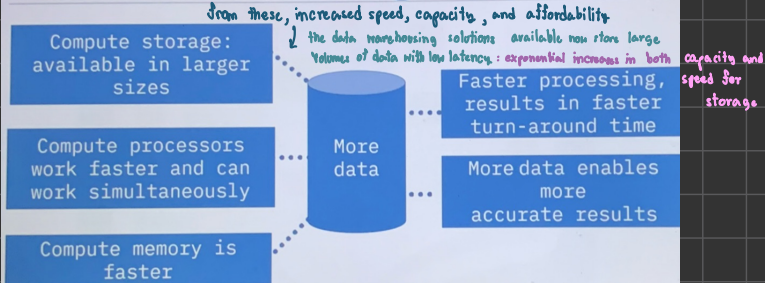
- Define analytics
- Describe how computing tools currently affect analytics
- Outline the purpose of analytics and Business Intelligence (BI) tools
- Describe what an Analytics or Business Intelligence tool is
- Identify several Analytics and Business Intelligence tools

Analytics defined

Analytics is the methodical compilation and dissection of data, statistics and operations research to build models that enable better decisions



Tools—revolutionizing analytics



Analytics in action and results

Built-in expertise provides insightful outcomes in almost real-time

- Descriptive outcomes: What happened in the past
- Predictive outcomes: What *can* happen in the future
- Prescriptive outcomes: What *should* happen in the future

Handwritten notes: 'provide insight into past', 'machine learning', 'to gain more comprehensive management, and organization'



Business Intelligence (BI) tools

- Enable data preparation, mining, management, and visualization
 - Focus on the "what" and the "why"
 - Apply statistics and operations research
 - Harness the power of descriptive, diagnostic, predictive and prescriptive analytics
 - Dashboarding, reporting and self-serve analytics based on historical, current, and projected data to
 - Transform data into opportunity
- Handwritten notes: 'what is happening and what triggered a specific outcome', 'to gain more comprehensive management, and organization', 'data to'

Tools for Business Intelligence

- IBM Cognos Analytics - integrates Watson Analytics leverages IBM AI and natural language processing
- Microsoft Power BI - known for its security and suite of applications
- Tableau - provides powerful visualizations
- Oracle Analytics Cloud - known for conversational analytics
- SAP Business Objects - recognized for smarter analytics
- Tibco Spotfire - provides AI-infused visual analytics and custom analytics app creation

IBM Cognos Analytics



Cognos Analytics Introduction

What you will learn



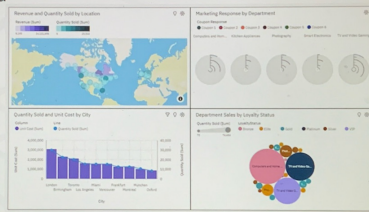
Describe what IBM Cognos Analytics is



Explain the sign-up process for a trial version of IBM Cognos Analytics

Cognos Analytics: Overview

- Business intelligence and analytics platform *by IBM*
- Offers a range of tools and features:
 - Data modeling
 - Data exploration
 - Advanced analytics
 - Natural language generation *with AI assistance*
 - Interactive dashboards and custom reporting



learn
in this
course