

DATA ANALYTICS

Exam Preparation Guide



Our Website
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Q1 — Primary Goal of Data Analytics

What is the primary goal of data analytics?

- A. Store data permanently
- B. Convert data into actionable insights
- C. Build software applications
- D. Manage computer networks

1

Q3 — Example of Structured Data

Which is an example of structured data?

- A. Images
- B. Videos
- C. Relational Database Tables
- D. Audio Files

2

Q2 — First Phase in Analytics Lifecycle

What is the first phase in the analytics lifecycle?

- A. Data Visualization
- B. Data Modeling
- C. Problem Definition
- D. Reporting

2

Q4 — What is Data Cleansing?

What is data cleansing?

- A. Encrypting data
- B. Removing errors and inconsistencies from data
- C. Visualizing data
- D. Compressing data

Answer Key

Q1 — B | Q2 — C | Q3 — C | Q4 — B

1

Q5 — Middle Value in a Dataset

What is the middle value in a dataset?

- A. Mean
- B. Mode
- C. Median
- D. Range

1

Q7 — What Does ETL Stand For?

What does ETL stand for?

- A. Evaluate, Transform, Load
- B. Extract, Transfer, Link
- C. Extract, Transform, Load
- D. Enter, Test, Load

2

Q6 — Most Frequently Occurring Value

What is the most frequently occurring value in a dataset?

- A. Mean
- B. Median
- C. Variance
- D. Mode

2

Q8 — SQL Clause to Filter Records

Which SQL clause is used to filter records?

- A. ORDER BY
- B. GROUP BY
- C. WHERE
- D. SELECT

Answer Key

Q5 — C | Q6 — D | Q7 — C | Q8 — C

1

Q9 — SQL Row Count Function

Which SQL function returns the number of rows?

- A. TOTAL()
- B. COUNT()
- C. SUM()
- D. AVG()

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Q11 — What is a Data Warehouse?

What is a data warehouse?

- A. A tool for data visualization
- B. A centralized repository for structured data
- C. A type of database server
- D. A cloud storage service

2

Q10 — Type of Analytics for Future Predictions

Which type of analytics is used to predict future outcomes?

- A. Descriptive
- B. Diagnostic
- C. Predictive
- D. Prescriptive

2

Q12 — SQL Command to Retrieve Data

Which SQL command is used to retrieve data?

- A. INSERT
- B. UPDATE
- C. DELETE
- D. SELECT

Answer Key

Q9 — B | Q10 — C | Q11 — B | Q12 — D

1

Q13 — Analytics That Answers "Why Did It Happen?"

Which type of analytics answers "Why did it happen?"

- A. Diagnostic Analytics
- B. Descriptive Analytics
- C. Predictive Analytics
- D. Prescriptive Analytics

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Q15 — What is a KPI?

What does KPI stand for?

- A. Key Performance Indicator
- B. Key Process Index
- C. Knowledge Performance Index
- D. Key Product Insight

2

Q14 — Best Chart for Trends Over Time

Which chart type is best for showing trends over time?

- A. Bar Chart
- B. Pie Chart
- C. Line Chart
- D. Scatter Plot

2

Q16 — What is Data Governance?

What is data governance?

- A. Storing data in the cloud
- B. Managing data availability, integrity, and security
- C. Visualizing data
- D. Querying databases

Answer Key

Q13 — A | Q14 — C | Q15 — A | Q16 — B

1

Q17 — Outlier

What is an outlier in a dataset?

- A. A duplicate record
- B. A missing value
- C. A data point significantly different from others
- D. A primary key

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Q19 — SQL JOIN Type That Returns All Matching Rows

Which SQL JOIN returns only matching rows from both tables?

- A. LEFT JOIN
- B. RIGHT JOIN
- C. FULL JOIN
- D. INNER JOIN

2

Q18 — Primary Key

What is a primary key in a database?

- A. A foreign reference
- B. A duplicate column
- C. A unique identifier for each record
- D. An index file

2

Q20 — What is Data Mining?

What is data mining?

- A. Storing large datasets
- B. Extracting patterns from large datasets
- C. Encrypting data
- D. Visualizing data

Answer Key

Q17 — C | Q18 — C | Q19 — D | Q20 — B

1

Q21 — What is Business Intelligence (BI)?

What is Business Intelligence?

- A. AI Development
- B. Using data to support business decisions
- C. Network management
- D. Software testing

1

Q23 — What is Correlation?

What does correlation measure?

- A. The cause of an event
- B. The relationship between two variables
- C. The average of a dataset
- D. The spread of data

2

Q22 — Best Chart for Part-to-Whole Relationships

Which chart best shows part-to-whole relationships?

- A. Line Chart
- B. Bar Chart
- C. Pie Chart
- D. Scatter Plot

2

Q24 — What is a Dashboard?

What is a data dashboard?

- A. A database server
- B. A visual display of key metrics and data
- C. A SQL query tool
- D. A data storage system

Answer Key

Q21 — B | Q22 — C | Q23 — B | Q24 — B

1

Q25 — SQL Clause That Groups Similar Values

Which SQL clause groups similar values?

- A. WHERE
- B. ORDER BY
- C. GROUP BY
- D. HAVING

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Q27 — Purpose of a Dashboard Filter

What is the purpose of a dashboard filter?

- A. To delete data
- B. To narrow down displayed data
- C. To export reports
- D. To create new tables

2

Q26 — What is a Data Lake?

What is a data lake?

- A. A structured database
- B. A storage repository for raw unstructured data
- C. A BI tool
- D. A SQL server

2

Q28 — What is Data Lineage?

What is data lineage?

- A. Data encryption method
- B. Tracking the origin and movement of data
- C. A type of SQL join
- D. A visualization technique

Answer Key

Q25 — C | Q26 — B | Q27 — B | Q28 — B

1

Q29 — Common Tool for BI Dashboards

Which tool is commonly used for BI dashboards?

- A. Tableau
- B. Git
- C. Docker
- D. Jenkins

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Q31 — SQL Command to Add New Records

Which SQL command adds new records to a table?

- A. UPDATE
- B. SELECT
- C. INSERT
- D. DELETE

2

Q30 — What is Data Quality?

What does data quality refer to?

- A. Data encryption
- B. The accuracy, completeness, and reliability of data
- C. Data compression
- D. Data storage capacity

2

Q32 — What is Normalization?

What is database normalization?

- A. Encrypting a database
- B. Organizing data to reduce redundancy
- C. Backing up data
- D. Visualizing data

Answer Key

Q29 — A | Q30 — B | Q31 — C | Q32 — B

1

Q33 — What Does ROI Stand For?

What does ROI stand for?

- A. Rate of Information
- B. Return on Investment
- C. Range of Insight
- D. Record of Index

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Q35 — What is a Star Schema?

What is a star schema?

- A. A type of SQL join
- B. A data warehouse model with a central fact table
- C. A visualization tool
- D. A data cleansing method

2

Q34 — Best Chart for Distribution

Which chart is best for showing data distribution?

- A. Pie Chart
- B. Line Chart
- C. Histogram
- D. Bar Chart

2

Q36 — What is a Fact Table?

What is a fact table in a data warehouse?

- A. A table storing dimension data
- B. A table containing measurable business metrics
- C. A backup table
- D. A metadata table

Answer Key

Q33 — B | Q34 — C | Q35 — B | Q36 — B

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Q37 — What is Data Profiling?

What is data profiling?

- A. Visualizing data
- B. Examining data characteristics and quality
- C. Encrypting data
- D. Storing data

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Q39 — What is a Heatmap Used For?

What is a heatmap used for?

- A. Displaying relationships using color intensity
- B. Storing records
- C. Query execution
- D. Data migration

2

Q38 — Common Analytics Programming Language

Which programming language is most common in data analytics?

- A. HTML
- B. Python
- C. CSS
- D. XML

2

Q40 — What is Sampling?

What is sampling in data analytics?

- A. Removing data
- B. Selecting a subset of data for analysis
- C. Encrypting records
- D. Visualizing trends

Answer Key

Q37 — B | Q38 — B | Q39 — A | Q40 — B

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Q41 — KPI for Operational Efficiency

Which KPI measures operational efficiency?

- A. Process Cycle Time
- B. Logo Design Quality
- C. Website Theme Score
- D. Coding Style Index

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Q43 — Analytics That Identifies Root Causes

Which analytics type identifies root causes?

- A. Predictive Analysis
- B. Prescriptive Analysis
- C. Diagnostic Analysis
- D. Descriptive Analysis

2

Q42 — What is a Foreign Key?

What is a foreign key?

- A. Unique identifier
- B. Link between related tables
- C. Database server
- D. SQL function

2

Q44 — Ideal Visualization for Comparing Categories

Which visualization is ideal for comparing categories?

- A. Bar Chart
- B. Scatter Plot
- C. Heatmap
- D. Bubble Chart

Answer Key

Q41 — A | Q42 — B | Q43 — C | Q44 — A

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Q45 — What is Metadata?

What is metadata?

- A. Data about data
- B. Backup data
- C. Encrypted data
- D. Compressed data

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Q47 — SQL Command to Modify Existing Records

Which SQL command modifies existing records?

- A. INSERT
- B. SELECT
- C. DELETE
- D. UPDATE

2

Q46 — What is Standard Deviation?

What does standard deviation measure?

- A. The average value
- B. The spread of data around the mean
- C. The most frequent value
- D. The middle value

2

Q48 — What is a Dimension Table?

What is a dimension table in a data warehouse?

- A. A table with measurable metrics
- B. A table with descriptive attributes
- C. A backup table
- D. A query log

Answer Key

Q45 — A | Q46 — B | Q47 — D | Q48 — B

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Q49 — Data Storytelling

What is data storytelling?

- A. Writing fiction using data
- B. Combining data, visuals, and narrative to communicate insights
- C. Storing data in stories
- D. Encrypting data narratives

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Q50 — Data-Driven Decision

What is a data-driven decision?

- A. A decision based on intuition
- B. A decision based on analysis of data
- C. A random choice
- D. A decision based on opinions

Answer Key

Q49 — B | Q50 — B



DATA ANALYTICS CERTIFICATION



ABOUT GSDC CERTIFICATION



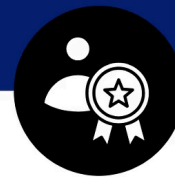
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