



BrightWorld Labs



Storage & Management



Analytics & Modeling



Reporting & Visualization

**DATA
MANAGEMENT
FOR
BUSINESS
INTELLIGENCE**

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BrightWorld Labs

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DATA MANAGEMENT FOR BUSINESS INTELLIGENCE

Workshop



Day 1—Storage & Management

| Time | Activity | Notes |
|-------------------|---|--|
| 9:00 AM—10:30 AM | Modern data stores | RDBMS; NoSQL; Big Data; Search Engines |
| 10:30 AM—10:45 AM | Tea Break | |
| 10:45 AM—12:15 PM | Secure Data Storage for Business Intelligence | Encryption; Access controls and sensitive personal data protection; Virus, worms, and other threats; Layered/tiered storage architecture |
| 12:15 PM—1:00 PM | Lunch Break | |
| 1:00 PM—2:30 PM | Data security best practices | Policies; Access controls; Encryption; Network security; Endpoint security; Redundancy; Backup and recovery |



Day 2—Analytics & Modeling

| Time | Activity | Notes |
|-------------------|---------------------------------------|---|
| 9:00 AM—10:30 AM | Data exploration and basic statistics | Exploiting traditional and non-traditional data sources; Essential foundations of quantitative statistics. |
| 10:30 AM—10:45 AM | Tea Break | |
| 10:45 AM—12:15 PM | Data Science & Machine Learning | Introduction to Data Science—Machine Learning and Deep Learning; Data cleaning; Regression, Classification, and Clustering applications; Digital twin concepts—Maintaining history for comparisons, Modeling changes through simulation |
| 12:15 PM—1:00 PM | Lunch Break | |
| 1:00 PM—2:30 PM | Data Quality Assessments | Data quality assessments; Identifying and assessing corporate performance indicators |



Day 3—Reporting & Visualization

| Time | Activity | Notes |
|-------------------|----------------------------------|--|
| 9:00 AM—10:30 AM | Basic reporting through MS Excel | Charts—When to use certain graphs; Maps—Visualizing business data that occurs in different locations overlaid with other map data. |
| 10:30 AM—10:45 AM | Tea Break | |
| 10:45 AM—12:15 PM | Advanced techniques | Interactive visualizations, searching, and feedback; Proper use of color, shape, area, size for charts and map symbols; Proper data classification; Introduction to key software—Tableau, MS Power BI, IBM |
| 12:15 PM—1:00 PM | Lunch Break | |
| 1:00 PM—2:30 PM | Essential best practices | Highlighting important values and variables; Not distorting values through improper use of symbols or classification |