



**DATA ANALYTICS  
FUNDAMENTAL PROGRAM**

## DOCUMENT INFORMATION

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## COURSE DESCRIPTION

### ***CELERATES will provides:***

- Trainer and Asst. Trainer;
- Completion Certificate;
- Material;
- Test Case;
- Mini Project;
- Course Result per participant;

### ***AUDIENCE:***

Jdata Analyst Bootcamp (Level Fundamental).

course is designed for the beginner to intermediate and advance. It is for anyone who works with data - regardless of technical or analytical background. This course helps you understand and use the important concepts and techniques in analytics, logics and data knowledge and skill.

### ***DURATION:***

Day : 3 (three) months;  
Time : 4-5 hours per day;  
ToC : starting time and area to be discussed.

### ***PREREQUISITES:***

- According to Client requirements;
- Pass 3x Phase (Selection Spurring, Bootcamp Evaluation, and Placement Probation).

## **COURSE OUTLINE CELERATES SCHOOL DATA ANALYTICS**

SESSION	CHAPTER	TOPIC	SUB TOPIC
1	1	Database & SQL	<ul style="list-style-type: none"> <li>a. What is Database?</li> <li>b. DBMS</li> <li>c. What is SQL?</li> <li>d. DDL, DML</li> <li>e. SQL Data Types</li> <li>f. PostgreSQL</li> </ul>
	2	OLTP	<ul style="list-style-type: none"> <li>a. What is OLTP?</li> <li>b. Characteristics</li> <li>c. ACID</li> <li>d. Normalization</li> </ul>
2	1	OLTP vs OLAP	<ul style="list-style-type: none"> <li>a. Database System Overview</li> <li>b. OLTP vs OLAP Major Task</li> <li>c. OLTP vs OLAP Detail</li> </ul>
	2	Data Warehouse (OLAP)	<ul style="list-style-type: none"> <li>a. Why to Separate Data Warehouse?</li> <li>b. What is Data Warehouse?</li> <li>c. Basic Concepts</li> <li>d. Dimension &amp; Fact</li> <li>e. Data Warehouse Schema</li> <li>f. Data Warehouse Steps</li> <li>g. What is OLAP?</li> <li>h. Characteristics</li> <li>i. OLAP Cube</li> </ul>
	3	ETL	<ul style="list-style-type: none"> <li>a. Data Warehouse Utilities</li> <li>b. What is ETL?</li> <li>c. ETL vs ELT</li> <li>d. Data Integration Perspective</li> <li>e. Manage Repository</li> <li>f. Data Integration Development</li> <li>g. Transformation &amp; Job</li> </ul>
3	1	Python	<ul style="list-style-type: none"> <li>a. Introduction</li> <li>b. Python Tools</li> <li>c. Python Data Types</li> <li>d. Python Syntax</li> <li>e. Python Popular Library</li> </ul>

	2	Statistics	<ul style="list-style-type: none"> <li>f. Thinks Stats</li> <li>g. Get to Know More about Data</li> <li>h. Descriptive Statistics</li> <li>i. Sampling</li> <li>j. Inferential Statistics</li> <li>k. Statistical Method</li> </ul>
4	1	Data Visualization / Business Intelligence	<ul style="list-style-type: none"> <li>a. Introduction to Data Visualization</li> <li>b. Why Visualization?</li> <li>c. Challenge in Big Data Era</li> <li>d. Insight</li> <li>e. Business Intelligence</li> <li>f. Business Intelligence Tools (Power BI)</li> </ul>
5	1	Final Project	<ul style="list-style-type: none"> <li>a. Understanding Problem and Build an End-to-end Solution</li> <li>b. Data Preparation and Cleansing</li> <li>c. Build Dashboard Analytics</li> <li>d. Data Interpretation and Story Telling</li> <li>e. Presentation to User</li> </ul>