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MICROSOFT FABRIC DATA ENGINEER COURSE CONTENT



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1. MS FABRIC BASICS

- **WHAT IS MICROSOFT FABRIC**
- **FABRIC VS SYNAPSE VS DATABRICKS**
- **ARCHITECTURE & ONELAKE CONCEPT**

2. FABRIC WORKSPACE & SECURITY

- **WORKSPACE CREATION**
- **ROLES & ACCESS CONTROL**
- **CAPACITY BASICS**



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3. ONELAKE & LAKEHOUSE

- **ONELAKE ARCHITECTURE**
- **FILES VS TABLES**
- **DELTA TABLES & SCHEMA EVOLUTION**

4. DATA INGESTION

- **DATAFLOWS GEN2**
- **FABRIC PIPELINES (COPY, LOOKUP, FOREACH)**
- **INCREMENTAL LOAD CONCEPTS**



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5. Spark in Fabric

- SPARK NOTEBOOKS (PYSPARK / SQL)
- JOB, STAGE & TASK CONCEPTS
- PARTITIONING & PERFORMANCE

6. DATA TRANSFORMATION

- PYSPARK TRANSFORMATIONS
- JOIN, AGGREGATION, WINDOW FUNCTIONS
- MERGE / UPSERT
- SCD TYPE 1 & TYPE 2



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7. SQL ANALYTICS ENDPOINT

- **QUERY LAKEHOUSE USING T-SQL**
- **DBO SCHEMA UNDERSTANDING**
- **SQL VS SPARK USE CASES**

8. FABRIC DATA WAREHOUSE

- **WAREHOUSE VS LAKEHOUSE**
- **FACT & DIMENSION MODELING**
- **INCREMENTAL LOADS**



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9. END-TO-END PROJECT

- **BRONZE, SILVER, GOLD ARCHITECTURE**
- **REAL-TIME BUSINESS SCENARIO PERFORMANCE**
- **OPTIMIZATION**

10. MONITORING & COST BASICS

- **PIPELINE & SPARK MONITORING**
- **CAPACITY USAGE & OPTIMIZATION**



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