



## .NET with MSBI v1

	MON	TUE	WED	THU	FRI	ENVIRONMENT
<b>Week 1</b> <b>Core compute- C#</b>	<ul style="list-style-type: none"> <li>Machine Setup - Editor, SCM, SDK</li> <li>Platform - .NET Core, .NET Standard</li> <li>Source Control - Command Line Interface</li> <li>Source Control - DVCS</li> </ul>	<ul style="list-style-type: none"> <li>Code Structure - Exception Handling</li> <li>Code Structure - TDD</li> <li>Code Structure - Procedural Programming</li> <li>Code Structure - OOP</li> <li>Code Structure - Collection</li> </ul>	Project 0 <ul style="list-style-type: none"> <li>Design Pattern - Singleton</li> <li>Design Pattern - Factory</li> <li>Design Pattern - Dependency Injection</li> <li>Design Pattern - Delegate, Event</li> </ul>	Project 0 <ul style="list-style-type: none"> <li>Architecture - Containerization</li> <li>Code Structure - Asynchronous Programming</li> <li>Code Structure - SOLID</li> <li>Code Structure - Monitoring</li> </ul>	Project 0 <ul style="list-style-type: none"> <li>Architecture - DevOps</li> <li>Architecture - Cloud Computing</li> <li>DevOps - CI/CD, Pipeline</li> <li>Cloud Computing - Infrastructure as Code</li> </ul>	<ul style="list-style-type: none"> <li>.NET Core</li> <li>C#</li> <li>xUnit</li> <li>VS Code</li> </ul>
<b>Week 2</b> <b>Core Data-SQL + DDL</b>	Project 0  Evaluation  Trainer 1 on 1s  Quality control audit <ul style="list-style-type: none"> <li>Machine Setup - Editor, Tooling</li> <li>Data Access - ADO.NET</li> <li>Data Access - ORM</li> <li>Data Structure - Serialization</li> </ul>	Project 0 <ul style="list-style-type: none"> <li>Data Access - Code First Approach</li> <li>Data Model - Entity, Relationship, Seeding</li> <li>Data Query - Eager Loading</li> <li>Data Query - Lazy Loading</li> <li>Data Query - Explicit Loading</li> </ul>	Project 0 <ul style="list-style-type: none"> <li>Data Structure - RDBMS</li> <li>Data Structure - Normalization</li> <li>Data Structure - Multiplicity</li> </ul>	Project 0 <ul style="list-style-type: none"> <li>Data Structure - DDL</li> <li>Data Structure - Database, Schema, Table</li> <li>Data Structure - View, Function, Stored Procedure</li> </ul>	Project 0 <ul style="list-style-type: none"> <li>Data Structure - Datatypes</li> <li>Data Structure - Constraints</li> <li>Data Structure - Trigger, Sequence, Index</li> </ul>	<ul style="list-style-type: none"> <li>SQL</li> <li>EF Core</li> <li>SQL Server</li> <li>SSMS</li> </ul>
<b>Week 3</b> <b>Core Data-SQL + DML</b>	Project 0  Evaluation  Trainer 1 on 1s  Quality control audit <ul style="list-style-type: none"> <li>Data Query - DML</li> <li>Data Operation - Logical Operators</li> </ul>	Project 0 <ul style="list-style-type: none"> <li>Data Operation - Aliasing</li> <li>Data Operation - Order of Execution</li> <li>Data Operation - INNER JOIN</li> <li>Data Operation - OUTER JOIN</li> </ul>	<b>Project 0 Presentation</b> <ul style="list-style-type: none"> <li>Data Operation - UNION, UNION ALL</li> <li>Data Operation - INTERSECT, EXCEPT</li> <li>Data Aggregation - COUNT, AVG, SUM, MAX, MIN</li> </ul>	Project 1 <ul style="list-style-type: none"> <li>Data Operation - CTE</li> <li>Data Operation - Subquery</li> <li>Data Operation - Execution Plan</li> <li>Data Operation - Performance Profile</li> </ul>	Project 1 <ul style="list-style-type: none"> <li>Data Operation - Exception Handling</li> <li>Data Transaction - ACID</li> <li>Data Transaction - COMMIT, ROLLBACK</li> <li>Data Transaction - Isolation Levels</li> </ul>	<ul style="list-style-type: none"> <li>SQL</li> <li>SQL Server</li> <li>SSMS</li> </ul>

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<b>Week 4</b> <b>Data Integration-SSIS</b>	Project 1  Evaluation  Quality control audit  Trainer 1 on 1s  <ul style="list-style-type: none"> <li>Machine Setup - Tooling</li> <li>Data Architecture - ETL</li> </ul>	Project 1  <ul style="list-style-type: none"> <li>Data Architecture - OLAP</li> <li>Data Architecture - OLTP</li> <li>Data Architecture - Data Warehousing</li> </ul>	Project 1  <ul style="list-style-type: none"> <li>Data Operation - Data Flow</li> <li>Data Operation - Control Flow</li> <li>Data Operation - Data Transformation</li> </ul>	Project 1  <ul style="list-style-type: none"> <li>Data Operation - Connectors</li> <li>Data Operation - Data Destination</li> <li>Data Operation - Data Sourcing</li> </ul>	Project 1  <ul style="list-style-type: none"> <li>Data Operation - Variables</li> <li>Data Operation - Expressions</li> <li>Data Operation - Queries</li> </ul>	<ul style="list-style-type: none"> <li>SQL</li> <li>SQL Server</li> <li>SQL Server Data Tools</li> </ul>
<b>Week 5</b> <b>Data Analysis-SSIS/SSAS</b>	Project 1  Evaluation  Project Day  Quality control audit  Trainer 1 on 1s	<b>Project 1 Presentation</b>  <ul style="list-style-type: none"> <li>Data Operation - Packages</li> <li>Data Operation - Scaling</li> <li>Data Operation - Deployment</li> </ul>	Project 2  <ul style="list-style-type: none"> <li>Data Operation - Transactions</li> <li>Data Operation - Event Handling</li> <li>Data Operation - Task, Container</li> <li>Data Operation - Monitoring</li> </ul>	Project 2  <ul style="list-style-type: none"> <li>Data Architecture - Analysis Workflow</li> <li>Data Architecture - Sourcing/Querying</li> <li>Data Modeling - Tabular</li> <li>Data Modeling - Multidimensional</li> </ul>	Project 2  <ul style="list-style-type: none"> <li>Data Modeling - Tables/Columns</li> <li>Data Modeling - Models</li> <li>Data Modeling - Cubes</li> <li>Data Modeling - Dimensions/Measure s</li> </ul>	<ul style="list-style-type: none"> <li>SQL</li> <li>SQL Server</li> <li>SQL Server Data Tools</li> </ul>
<b>Week 6</b> <b>Data Reporting-SSRS</b>	Project 2  Evaluation  Trainer 1 on 1s  Quality control audit  <ul style="list-style-type: none"> <li>Machine Setup - Tooling</li> <li>Data Architecture - Reporting Workflow</li> </ul>	Project 2  <ul style="list-style-type: none"> <li>Data Architecture - Building, Designing</li> <li>Data Reporting - Sourcing</li> <li>Data Reporting - Report Lifecycle</li> <li>Data Reporting - Server Configuration</li> </ul>	Project 2  <ul style="list-style-type: none"> <li>Data Reporting - Report Builder</li> <li>Data Reporting - Basic Table Report</li> <li>Data Reporting - Matrix Report</li> <li>Data Reporting - Charting Report</li> </ul>	Project 2  <ul style="list-style-type: none"> <li>Data Reporting - Report Designer</li> <li>Data Reporting - Basic Table Report</li> <li>Data Reporting - Subscriptions</li> <li>Data Reporting - Drillthrough Report</li> </ul>	Project 2  <ul style="list-style-type: none"> <li>Data Reporting - Shared Datasets</li> <li>Data Reporting - Paginated Reports</li> <li>Data Reporting - Exporting</li> <li>Data Reporting - Web Portal</li> </ul>	<ul style="list-style-type: none"> <li>SQL</li> <li>SQL Server</li> <li>SQL Server Data Tools</li> </ul>
<b>Week 7</b> <b>Data Visualization-Power BI</b>	Project 2  Evaluation  Project Day  Trainer 1 on 1s  Quality control audit	<b>Project 2 Showcase</b>  <ul style="list-style-type: none"> <li>Machine Setup - Tooling</li> <li>Data Architecture - Visualization Workflow</li> <li>Data Visualization - Sourcing</li> </ul>	<ul style="list-style-type: none"> <li>Data Visualization - Connectors</li> <li>Data Visualization - Transformations</li> <li>Data Visualization - Querying</li> </ul>	<ul style="list-style-type: none"> <li>Data Visualization - Expressions</li> <li>Data Visualization - Datatypes</li> <li>Data Visualization - Relationships</li> </ul>	<ul style="list-style-type: none"> <li>Data Visualization - Reporting</li> <li>Data Visualization - Charting</li> <li>Data Visualization - Publishing</li> </ul>	<ul style="list-style-type: none"> <li>Power BI Desktop</li> <li>Power BI SaaS</li> </ul>
<b>Week 8</b> <b>Portfolio Preparation</b>	Project 3  Evaluation  Daily Standup  Quality control audit	Project 3  Daily Standup	Project 3  Daily Standup  Code Review	Project 3  Daily Standup  Code Review	Project 3  Daily Standup  Code Review	

	MON	TUE	WED	THU	FRI	ENVIRONMENT
<b>Week 9</b> <b>Panel Interview</b>	Project 3	Project 3	Project 3	Project 3	Project 3	
	Panel Interviews	Panel Interviews	Panel Interviews	Panel Interviews	Panel Interviews	
	Daily Standup	Daily Standup	Daily Standup	Daily Standup	Daily Standup	
	Code Review	Code Review	Code Review	Code Review	Code Review	
	Quality control audit					
<b>Week 10</b> <b>Project Showcase</b>	Project 3	Project 3	Project 3	Project 3 Presentation	Promotion Ceremony	
	Panel Interviews	Panel Interviews	Panel Interviews			
	Daily Standup	Daily Standup	Daily Standup			
	Code Review	Code Review	Code Review			

**PROJECT**

Project 0

Project 2

Project 3

Project 1

**TECHNOLOGIES**

C#, SQL, EF Core

SQL, SSIS, SSRS

C#, SQL, SSIS, Power BI

SQL, SSIS



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