

دوره هوش تجاری Business Intelligence

مروری بر دوره

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این دوره برای استخراج، تبدیل و بارگذاری (ETL) و توسعه دهندگان انبار داده است که راهکارهای کسب و کار (BI) را ایجاد می کنند. مسئولیت های آنها شامل پاکسازی داده ها، علاوه بر اجرای ETL و انبار داده ها است، همچنین این دوره برای توسعه دهندگان کسب و کار (BI) در نظر گرفته شده است که بر روی ایجاد راه حل های BI تمرکز می کنند که نیاز به اجرای مدل های چند بعدی داده، اجرای و نگهداری مکعب های OLAP و اجرای مدل های داده های جدولی دارند.

سرفصل ها (حضوری)

سرفصل ها

- Introduction to BI
- Data Warehouse Design
- Understanding BI
- Understanding Data Warehouse Design
- Stages of Making a BI System
- Designing Data Warehouse
- OLAP Modeling
- Star Schema
- Snowflake Schema
- Constellation Schema
- Designing Dimension
- Designing Fact



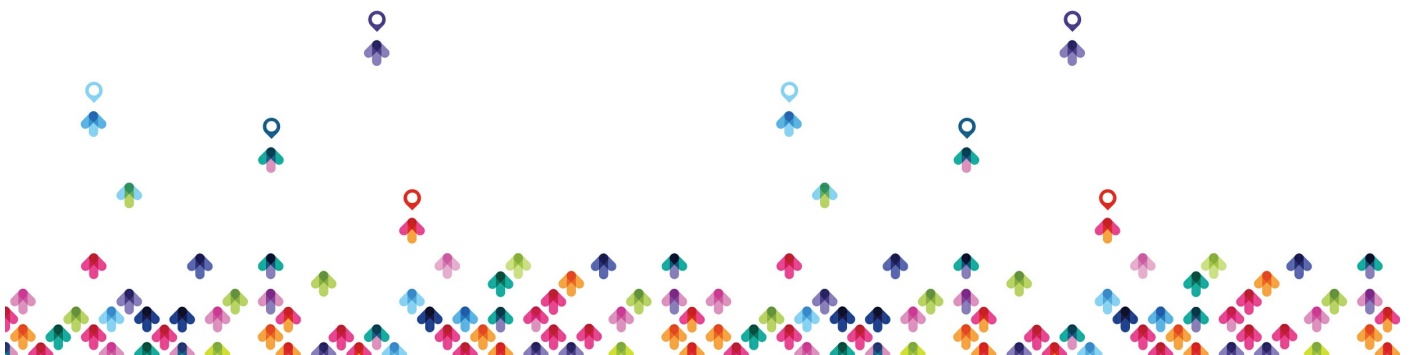
- Extract, Transform & Load Data (۲۱ Hours)
- Introduction to SSIS
- Getting Started
- Creating SSIS Packages and Data Sources
- Creating and Editing Control Flow Objects
- Using the Maintenance Plan Tasks
- Using Containers
- Sequence Container
- For Loop Container
- Foreach Loop Container
- Using Expressions & Variables
- Using Parameters
- Loading a Data Warehouse
- Data Extraction
- Data Transformation
- Changing Data Types with the Data Conversion Transform
- Creating Columns with the Derived Column Transform
- Rolling Up Data with the Aggregate Transform
- Ordering Data with the Sort Transform
- Joining Data using Lookup/Merge Join
- Combining Multiple Inputs with the Union All
- Auditing Data with the Row Count Transform
- Separating Data with the Conditional Split Transform
- Altering Rows with the OLE DB Command Transform
- Using Cache Transform Component
- Dimension Table Loading



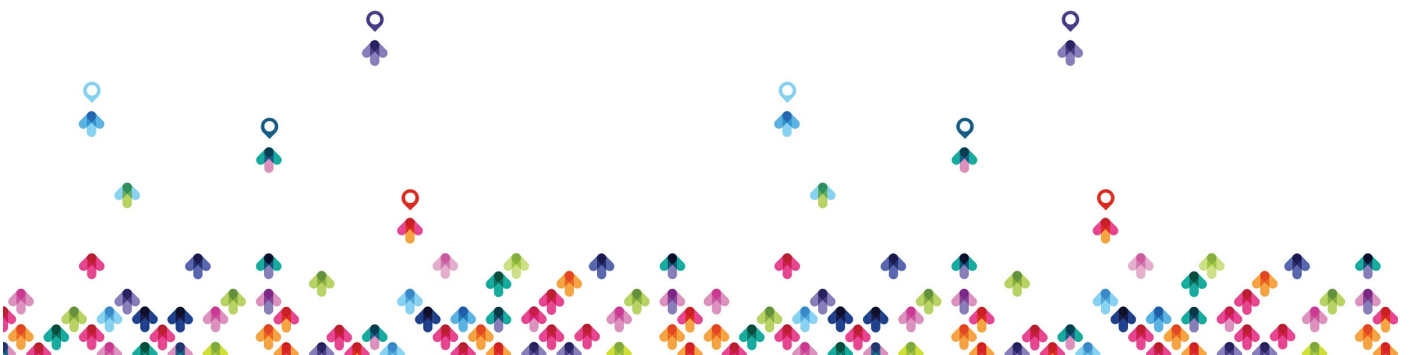
- Using SCD(Slowly Changing Dimensions)
- Fact Table Loading
- Using CDC(Change Data Capture)
- SSAS Processing
- Implementing Multi-Dimensional Model(۲۴ Hours)
- Designing DSV(Data Source View)
- Dimensions: Attributes & Members
- Dimensions: Hierarchies
- Measure Group & Measures
- Demonstrate Using Excel Pivot Table
- Advanced Dimension Designing
- Introduction to MDX language (Multi-Dimensional Expressions)
- MDX Query
- MDX Expressions
- Using Calculations
- Calculated Member
- Named Set
- Script Command
- Implementing KPI
- Adding Translation
- Using Perspectives
- Managing Data Warehouse
- Elementary Partitioning
- Elementary Processing
- Deployment
- Managing Security



- Implementing Tabular Model (۶ Hours)
- Tabular Model Concepts
- Tabular Model Concepts
- Comparison of Multidimensional and Tabular Models
- Tabular Model Implementation
- Fetching the Data
- Designing Data Model
- Active vs Inactive Relationship
- Bidirectional Relationship
- Introduction to DAX language (Data Analysis Expressions)
- Calculated Attributes
- Calculated Tables
- Measures
- Demonstrate Using Excel Pivot Table
- Implementing KPI
- Implementing Hierarchy
- Using Perspectives
- Managing Data Warehouse
- Elementary Partitioning
- Elementary Processing
- Deployment
- Managing Security
- Self Service BI (Power Pivot)
- Self Service BI Concept
- Power Pivot Implementation Using Excel
- Reporting and Dashboards Design (۹Hours)



- Introduction to all reporting tools in Microsoft Platform
- Implementation Power View for Excel
- Configuring SSRS
- Implementation SSRS Reports
- Paginated Reports initial familiarization
- Implementation Parameterize Reporting
- Implementing Graphical and Geographical Dashboards
- Implementation Actionable Reports
- Power BI Reports initial familiarization
- Mobile Reports initial familiarization
- Elementary Data Mining (۹ Hours)
- Understanding Data Mining
- Data Mining Concepts
- The Data Mining Process
- Understanding Key Concepts
- Attribute
- State/Value
- Case/Nested Case / Case Table / Nested Table
- Keys (Case Key/ Nested Key)
- Inputs and Outputs
- Implementing Mining Structure
- Implementing Case Table
- Implementing Nested Table
- Partitioning Sets
- Implementation Mining Model
- Introduction to Data Mining Algorithms



- Browsing and Querying Mining Models
- Using Mining Model Viewer
- Elementary Prediction with Mining Model Predictions
- Introduction to MDX (Data Mining Extensions) in DQL mode

مخاطبان دوره

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- کلیه افرادی که علاقمند به یادگیری مباحث مربوط به هوش تجاری، ETL، آنالیز داده و کارکردن با داده بصورت پیشرفته می باشند.

پیش نیازها

پیش نیازها

- Microsoft SQL Server ۲۰۱۶ - Design & Implementation

