

This course covers the following topics (any items marked with a * will be covered if time allows):

<p>Multi-dimensional models</p> <ul style="list-style-type: none"> • OLAP and OLTP • What are cubes? <p>Visual Studio primer</p> <ul style="list-style-type: none"> • Configuring Visual Studio • Creating a project • Creating a data source <p>Data Source Views</p> <ul style="list-style-type: none"> • Keys and relationships • Exploring data • Named queries • Named calculations <p>Dimensions</p> <ul style="list-style-type: none"> • The dimension wizard • Attribute hierarchies • Deploying dimensions <p>Publishing dimensions and cubes</p> <ul style="list-style-type: none"> • Deploying • Processing • Handling deployment errors <p>Basic Cubes</p> <ul style="list-style-type: none"> • Using the cube wizard • The cube designer • Filtering cubes <p>Star and snowflake schemas</p> <ul style="list-style-type: none"> • The 2 types of schema • Which to use 	<p>Hierarchies and Relationships</p> <ul style="list-style-type: none"> • Natural hierarchies • Unnatural hierarchies • Attribute relationships • Suppressing hierarchies <p>Parent-child Hierarchies</p> <ul style="list-style-type: none"> • The self-join needed • Tidying up the dimensions • Limitations <p>Time dimensions</p> <ul style="list-style-type: none"> • Creating a time dimension • Autogenerating • Creating time hierarchies <p>Measures</p> <ul style="list-style-type: none"> • Measures and measure groups • Formatting measures • Dimension usage • Multiple measure groups <p>Advanced dimensions</p> <ul style="list-style-type: none"> • Role-playing dimensions • Referenced dimensions <p>Calculations</p> <ul style="list-style-type: none"> • Creating calculations • Formatting calculations • Basic MDX expressions <p>Writing MDX Queries</p> <ul style="list-style-type: none"> • Using axes • Default and multiple measures • Sets and named sets • Tuples • WHERE clauses 	<p>MDX Expressions</p> <ul style="list-style-type: none"> • Year-to-date • Ratios • Previous period comparisons • Ranking <p>KPIs</p> <ul style="list-style-type: none"> • Key Performance Indicators • Status and trend expressions • Using KPIs in client tools • KPI functions <p>Using client software</p> <ul style="list-style-type: none"> • Using Excel as a client • Using Reporting Services <p>Cube actions</p> <ul style="list-style-type: none"> • Creating URL click-throughs • Drill-through actions <p>Mining Models</p> <ul style="list-style-type: none"> • Creating a mining structure • Decision trees - example • Clustering - example • Reviewing model accuracy <p>Data-mining algorithms</p> <ul style="list-style-type: none"> • The 9 types of algorithm • When to use each algorithm
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There will be no more than 6 people on the course. All of our public (scheduled) courses include lunch at a local restaurant. For more information, see www.wiseowl.co.uk/courses/ssas-cube-analysis-services.htm.