

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

<p><b>Multi-dimensional models</b></p> <ul style="list-style-type: none"> <li>• OLAP and OLTP</li> <li>• What are cubes?</li> </ul> <p><b>Visual Studio primer</b></p> <ul style="list-style-type: none"> <li>• Configuring Visual Studio</li> <li>• Creating a project</li> <li>• Creating a data source</li> </ul> <p><b>Data Source Views</b></p> <ul style="list-style-type: none"> <li>• Keys and relationships</li> <li>• Exploring data</li> <li>• Named queries</li> <li>• Named calculations</li> </ul> <p><b>Dimensions</b></p> <ul style="list-style-type: none"> <li>• The dimension wizard</li> <li>• Attribute hierarchies</li> <li>• Deploying dimensions</li> </ul> <p><b>Publishing dimensions and cubes</b></p> <ul style="list-style-type: none"> <li>• Deploying</li> <li>• Processing</li> <li>• Handling deployment errors</li> </ul> <p><b>Basic Cubes</b></p> <ul style="list-style-type: none"> <li>• Using the cube wizard</li> <li>• The cube designer</li> <li>• Filtering cubes</li> </ul> <p><b>Star and snowflake schemas</b></p> <ul style="list-style-type: none"> <li>• The 2 types of schema</li> <li>• Which to use</li> </ul>	<p><b>Hierarchies and Relationships</b></p> <ul style="list-style-type: none"> <li>• Natural hierarchies</li> <li>• Unnatural hierarchies</li> <li>• Attribute relationships</li> <li>• Suppressing hierarchies</li> </ul> <p><b>Parent-child Hierarchies</b></p> <ul style="list-style-type: none"> <li>• The self-join needed</li> <li>• Tidying up the dimensions</li> <li>• Limitations</li> </ul> <p><b>Time dimensions</b></p> <ul style="list-style-type: none"> <li>• Creating a time dimension</li> <li>• Autogenerating</li> <li>• Creating time hierarchies</li> </ul> <p><b>Measures</b></p> <ul style="list-style-type: none"> <li>• Measures and measure groups</li> <li>• Formatting measures</li> <li>• Dimension usage</li> <li>• Multiple measure groups</li> </ul> <p><b>Advanced dimensions</b></p> <ul style="list-style-type: none"> <li>• Role-playing dimensions</li> <li>• Referenced dimensions</li> </ul> <p><b>Calculations</b></p> <ul style="list-style-type: none"> <li>• Creating calculations</li> <li>• Formatting calculations</li> <li>• Basic MDX expressions</li> </ul> <p><b>Writing MDX Queries</b></p> <ul style="list-style-type: none"> <li>• Using axes</li> <li>• Default and multiple measures</li> <li>• Sets and named sets</li> <li>• Tuples</li> <li>• WHERE clauses</li> </ul>	<p><b>MDX Expressions</b></p> <ul style="list-style-type: none"> <li>• Year-to-date</li> <li>• Ratios</li> <li>• Previous period comparisons</li> <li>• Ranking</li> </ul> <p><b>KPIs</b></p> <ul style="list-style-type: none"> <li>• Key Performance Indicators</li> <li>• Status and trend expressions</li> <li>• Using KPIs in client tools</li> <li>• KPI functions</li> </ul> <p><b>Using client software</b></p> <ul style="list-style-type: none"> <li>• Using Excel as a client</li> <li>• Using Reporting Services</li> </ul> <p><b>Cube actions</b></p> <ul style="list-style-type: none"> <li>• Creating URL click-throughs</li> <li>• Drill-through actions</li> </ul> <p><b>Mining Models</b></p> <ul style="list-style-type: none"> <li>• Creating a mining structure</li> <li>• Decision trees - example</li> <li>• Clustering - example</li> <li>• Reviewing model accuracy</li> </ul> <p><b>Data-mining algorithms</b></p> <ul style="list-style-type: none"> <li>• The 9 types of algorithm</li> <li>• When to use each algorithm</li> </ul>
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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](http://www.wiseowl.co.uk/courses/ssas-cube-analysis-services.htm).