

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

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|---|---|--|
| <p><b>Getting started</b></p> <ul style="list-style-type: none"> <li>• Multidimensional vs tabular</li> <li>• Separate named instances</li> </ul>   | <p><b>Other data sources</b></p> <ul style="list-style-type: none"> <li>• Linking to Excel</li> <li>• Pasting in data</li> </ul>  | <p><b>Date calculations</b></p> <ul style="list-style-type: none"> <li>• Working days</li> <li>• Period to date</li> <li>• Prior and parallel periods</li> <li>• Semi-additive measures</li> </ul> |
| <p><b>Visual Studio basics</b></p> <ul style="list-style-type: none"> <li>• Visual Studio windows</li> <li>• Setting startup options</li> <li>• Creating a project</li> </ul>   | <p><b>Calculated columns</b></p> <ul style="list-style-type: none"> <li>• Using IF and SWITCH</li> <li>• BLANK arithmetic</li> <li>• Linking tables using RELATED</li> </ul>            | <p><b>Hierarchies</b></p> <ul style="list-style-type: none"> <li>• Creating a hierarchy</li> <li>• Viewing hierarchies</li> </ul>  |
| <p><b>Connecting to SQL Server</b></p> <ul style="list-style-type: none"> <li>• Creating and using connections</li> <li>• Filtering rows and columns</li> </ul>   | <p><b>Measures</b></p> <ul style="list-style-type: none"> <li>• Creating measures</li> <li>• SUMX, AVERAGEX, etc.</li> </ul>  | <p><b>KPIs</b></p> <ul style="list-style-type: none"> <li>• The parts of a KPI</li> <li>• Absolute and relative measures</li> <li>• Creating and viewing KPIs</li> </ul>                           |
| <p><b>Creating a data model</b></p> <ul style="list-style-type: none"> <li>• Hiding from client tools</li> <li>• Renaming tables/columns</li> <li>• How column storage works</li> <li>• How processing works</li> </ul> | <p><b>Changing query context</b></p> <ul style="list-style-type: none"> <li>• The CALCULATE function</li> <li>• Using FILTER</li> </ul>   | <p><b>Perspectives</b></p> <ul style="list-style-type: none"> <li>• Creating perspectives</li> <li>• Using in Excel</li> </ul>   |
| <p><b>Relationships</b></p> <ul style="list-style-type: none"> <li>• Diagram view</li> <li>• Creating relationships</li> </ul>  | <p><b>Prototyping using PowerPivot</b></p> <ul style="list-style-type: none"> <li>• Using PowerPivot</li> <li>• Importing PowerPivot models into SSAS</li> <li>• Constraints</li> </ul> | <p><b>Security (*)</b></p> <ul style="list-style-type: none"> <li>• How security works</li> <li>• Creating roles</li> <li>• Filtering rows by role</li> </ul>                                      |
| <p><b>Excel pivot tables</b></p> <ul style="list-style-type: none"> <li>• Analysing data in Excel</li> <li>• Connecting from Excel</li> <li>• Using Excel pivot tables</li> </ul>                                       | <p><b>Accessing DAX queries</b></p> <ul style="list-style-type: none"> <li>• From within Excel</li> <li>• From Reporting Services</li> </ul>  |  |
| <p><b>Power BI Desktop overview (*)</b></p> <ul style="list-style-type: none"> <li>• Importing from SSAS</li> <li>• Basic visualisations</li> <li>• How publishing works</li> </ul>                                     | <p><b>Calendars</b></p> <ul style="list-style-type: none"> <li>• Creating a calendar table</li> <li>• Using multiple calendars</li> </ul>   |  |

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-tabular-analysis-services.htm](http://www.wiseowl.co.uk/courses/ssas-tabular-analysis-services.htm).