

BizTalk-Training.com

BizTalk 2006 R2 - BAM Course Outline

(BAM = Business Activity Monitoring)

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The following videos are available via online learning management system at <http://BizTalk-Training.com>. Please check website for latest pricing.

| | length min:sec |
|--|---------------------------|
| 1. BAM Architecture and Overview | |
| 1. Preview of BAM from the BT2006/R2 Intro Course | 0:14:52 |
| Total time | 0:14:52 |
| 2. Install, Configuration, Prerequisites | |
| 1. Installing SQL Analysis Services | 0:02:53 |
| 2. SQL Analysis Services - Service Pack 4 | 0:04:23 |
| 3. Configuration Utility - Setting up BAM -ends with error | 0:00:45 |
| 4. Configuration Utility for BAM | 0:03:06 |
| 5. Config Utility for BAM Alerts/SQL Notification Services (ends with error) | 0:08:12 |
| 6. Config Utility for BAM Alerts/SQL Notification Services (success) | 0:02:49 |
| 7. Config Utility for BAM Portal | 0:02:11 |
| Total time | 0:24:19 |
| 3. Phase 1 - One level of data, no aggregation, using TPE | |
| 1. Using the Excel BAM Add-In to Define Activities | 0:08:29 |
| 2. Using Excel to Define Views | 0:10:06 |
| 3. Using the BM Command-Line Tool | 0:12:04 |
| 4. Two Methods of Intercepting Data | 0:05:10 |
| 5. Setting up the TPE (Tracking Profile Editor) | 0:09:56 |
| 6. TPE Database Query, Run Orch, Results Dup PO Problem | 0:13:05 |
| 7. Use MsgInstanceGUID as Activity in TPE, Testing, Results | 0:08:48 |
| 8. Customizing/Saving Reports in BAM Portal (Web Application) | 0:09:13 |
| 9. Adding a new field, updating a view | 0:18:39 |
| 10. Adding a new field, adding a new view | 0:13:45 |
| 11. Try delete old view | 0:04:59 |
| Total time | 1:54:14 |

| | |
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| 4. Phase 2 - Two levels of data, using TPE | |
| 1. Excel Preparation | 0:10:12 |
| 2. TPE Setup - Add second profile | 0:14:58 |
| 3. Test, Show Error, Examine Orchestration for Refactor | 0:14:20 |
| 4. More loop testing, missing data in BAM | 0:13:01 |
| 5. Remapping TPE to Sub-Orchestration, Retesting (But Extra Row) | 0:15:23 |
| 6. Debug why the extra row exists | 0:09:41 |
| 7. Rework Orchestration To Work with TPE Limitations | 0:17:14 |
| 8. Successful Results | 0:20:05 |
| Total time | 1:54:54 |
| 5. Phase 3 - Carrying redundant data for 2 levels | |
| 1. Excel and Orchestration Changes | 0:21:44 |
| 2. Orchestration Changes and Rebuild TPE | 0:17:20 |
| 3. Results and Summary | 0:06:47 |
| Total time | 0:45:51 |
| 6. Phase 4 - Using the BAM-API | |
| 1. Introduction to the API, Download, Install, & Run the Façade | 0:12:33 |
| 2. Compiling the Façade, Change Ochestration to Call API | 0:19:40 |
| 3. Recap, Deploy Orchestration, Test, Persistence Point Error (can skip) | 0:15:47 |
| 4. Continue Debugging, Error resolved (skip to 8:28 for solution), Recap | 0:15:36 |
| 5. Add same API to OrderLineItems Detail | 0:17:37 |
| 6. Test and Demonstrate Results | 0:07:33 |
| Total time | 1:28:46 |
| 7. Phase 5 - Real-Time Aggregation With Triggers | |
| 1. Excel and Pivot Table Definition | 0:14:58 |
| 2. Deploy and Test, Portal, & View "LiveData" Spreadsheet/PivotTable | 0:13:55 |
| 3. Change Date/Time field, and Rerun to demo | 0:05:20 |
| Total time | 0:34:13 |
| 8. Phase 6 - Aggregation with Analysis Services (OLAP) | |
| 1. Excel and Pivot Table Definition | 0:13:16 |
| 2. View DTA Packages, Schedule DTS, Run, Test Pivot Table | 0:16:20 |
| 3. Demonstrate How NOT Real-Time | 0:03:52 |
| Total time | 0:33:28 |
| 9. BAM Alerts | |
| 1. Define Alert and Subscribe | 0:08:34 |
| 2. Test Start Service and use of NSControl Command | 0:13:28 |
| 3. To be continued ... | 0:00:00 |
| Total time | 0:22:02 |
| GRAND TOTALS | 8:12:39 |

The almost 8 hours above is probably about the equivalent of the lecture/demo time than you would receive in a 2.5 day class. Once you exclude lunches and breaks, most 5-day classes meet about 6 hours per day (less on Fridays), and about 50% of the time is spent in labs.

This course compares, contrasts and demonstrates many topics such as:

- 1) TPE (Tracking Profile Editor) vs API (Application Program Interface)
- 2) Non-aggregation vs Aggregation
- 3) Real-Time Aggregation using triggers vs Aggregation in Analysis Services
- 4) Using the Darren Jefford publicly available "façade" (strongly-typed) with the BAM-API
- 5) Creating activity references between two levels of data collection (parent/child)
- 6) OLAP Cubes and Pivot Tables
- 7) BAM Event Viewer

NOTE: There are still a few topics that MIGHT be added to this course, and that includes continuations. We cover references, but not "custom references" (where you can store your own documents in BAM itself). We do not yet cover using BAM API outside of orchestrations, and we demonstrate only the OrchestrationEventStream (there are other streams for other purposes). We are anxious to get the existing course material to the public without further delay. I had an outstanding configuration with BAM Alerts that didn't allow me to complete a working demonstration.

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For complete list of websites and Neal's book reviews see <http://NealWalters.com>.