DAX

DAX Query View Testing Patterns

October 4th, 2024

About Me

Experience

- 11+ years with Microsoft BI stack
- 8+ years with PowerPivot/Power BI
- 5+ years with Azure DevOps

Credentials

- MCSE: Productivity
- MS: PBI Data Analyst
- PMP

Microsoft® MVP Most Valuable Professional

Contact Me

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Blog

Slides:

Agenda

- Why Test?
- DAX Query View (DQV) Testing Patterns
  - PBIX-Pattern
  - PBIP-Pattern
  - CI-Pattern

Why Test?

- Find Errors Before Your Customers Do
- Never See The Same Error In Production Again
- Tests are your Safety Net

DataOps

DAX QUERY VIEW TESTING PATTERNS

PBIX-Pattern
Prerequisites

1. Recent Release of Power BI Desktop

PBIX-Pattern

1. Standardize Schema and Naming Conventions
   - [name].[environment].tests
2. Build Tests
   1. Testing Calculations
   2. Testing Content
   3. Testing Schema

PBIP-Pattern Prerequisites

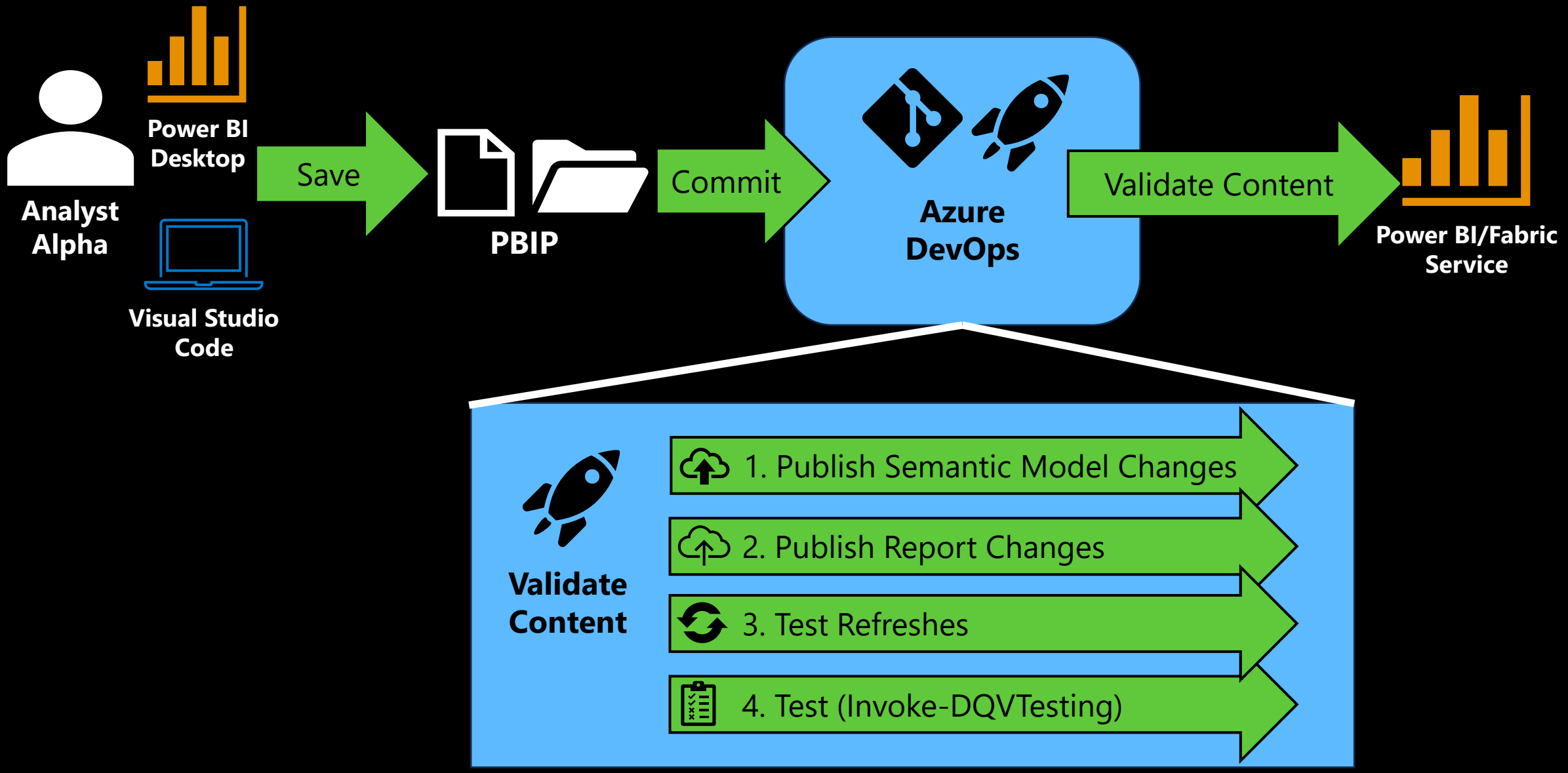
1. Recent Release of Power BI Desktop
2. PBIP Format
3. Visual Studio Code
4. PowerShell Core

Continuous Integration Pattern

Continuous Integration (CI) Pattern Prerequisites

1. Recent Release of Power BI Desktop
2. PBIP Format
3. Azure DevOps
4. XMLA/Service Principals
5. Premium-backed workspace
   - Will work with PPU

CI Pattern


Analyst Alpha
Power BI Desktop
Visual Studio Code
Save
PBIP
Commit
Azure DevOps
Validate Content
Power BI/Fabric Service
Validate Content
1. Publish Semantic Model Changes
2. Publish Report Changes
3. Test Refreshes
4. Test (Invoke-DQVTesting)