

Creating New Scripts with Test Driven Development



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Podcast-Database Module

Advanced Options for Pester



Requirements – Test-PodcastTable



Validate the existence of a table

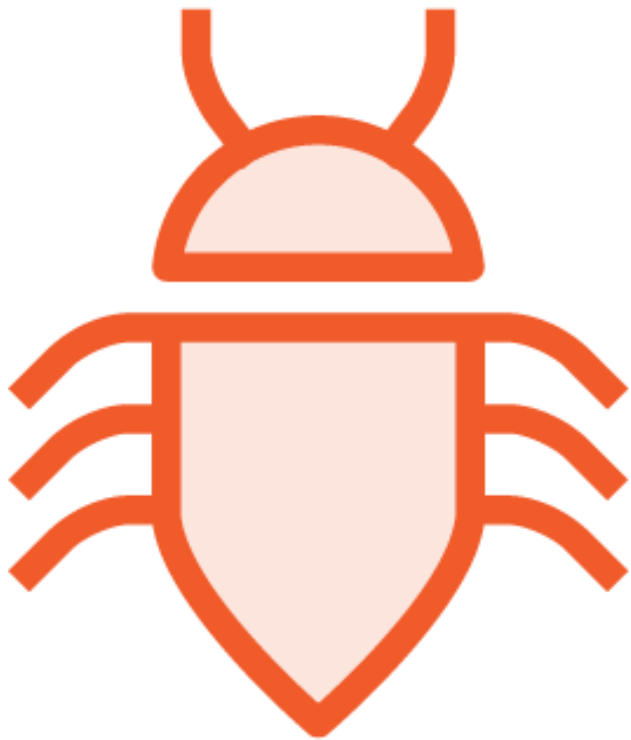
Two parameters

- Name of DB to look in, default to PodcastSight
- Name of Table to look for

Use default schema of dbo if no schema included in table name

Return \$true if it exists, else \$false

Tests – Test-PodcastTable



Validate:

Existence of PodcastSight

Staging exists using default db name

dbo.Staging exists using default db name

Staging exists passing in db name

dbo.Staging exists passing in db name

Returns false when a nonexistent table name is passed in



Requirements – New-PodcastTable



Validate table does not exist before creating

Create a new table with the columns:

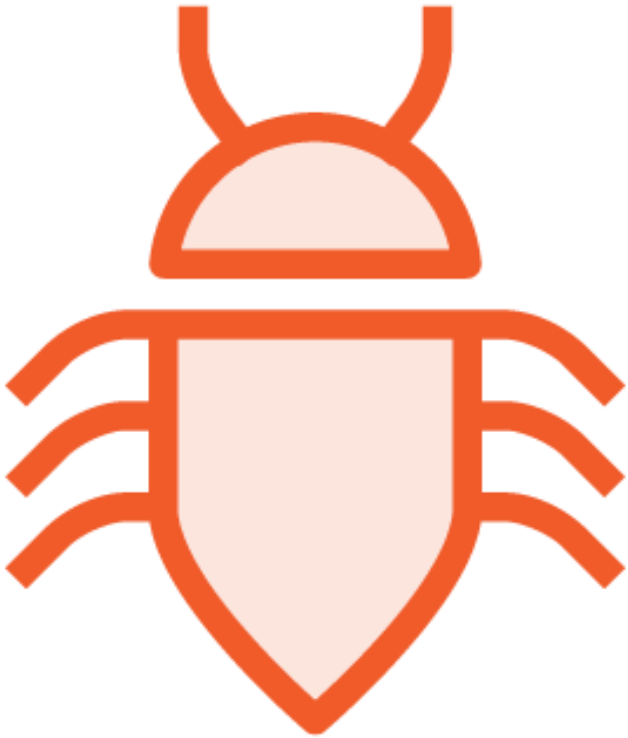
- Title, ShowUrl, EmbeddedHTML, Hosts, PublicationDate, ImageUrl, AudioUrl, AudioLength

Two parameters

- DB to use, default to PodcastSight
- Name of Table to create

Use default schema of dbo if no schema included in table name

Tests – New-PodcastTable



Mock Test-PodcastTable

Validate a table is created

Validate the table has the correct fields



Requirements – Update-PodcastTable



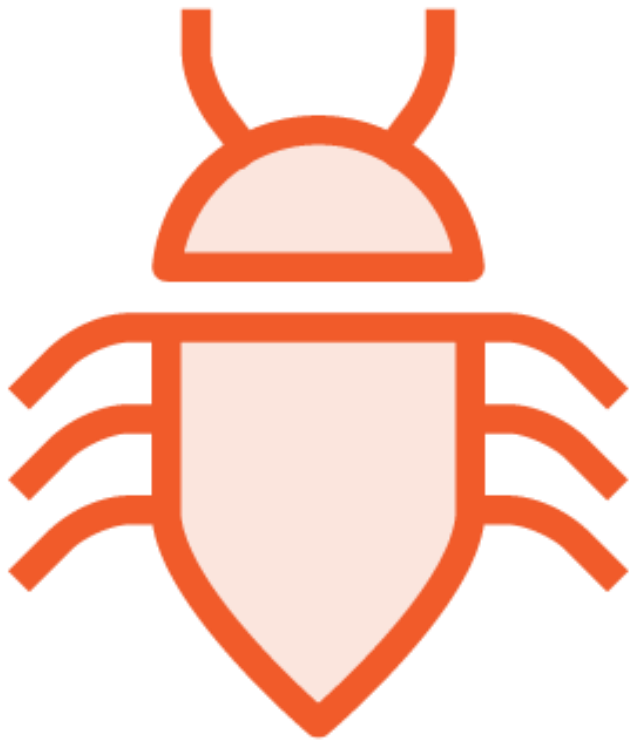
Three parameters:

- DB Name (default to PodcastSight)
- Table Name. Use dbo for default schema
- Podcast Data (from Get-PodcastData)

Update Staging Table using the InsertStagingData stored procedure, after ensuring the staging table exists

User T-SQL Merge to update target table from Staging

Tests – Update-PodcastTable



Unit Tests

- Mocked RSS Data
- Update newly created test table
- Compare each column for each row in the source to what is placed in the db

Acceptance Tests

- Real RSS Data
- Existing table for the podcast
- Compare each column for each row in the source to what is placed in the db

Summary



Created a new module using TDD

Database application testing issues

Helper functions for tests



Summary



Created comprehensive tests for existing code

Pester as a guide for change requests

Pester + TDD to create a new module

