

Improving Team Collaboration using Database Projects and Azure DevOps

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twoday capacity

Fellowwind



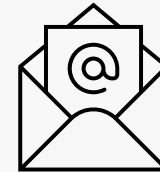
About me

BI Teamlead – X²O

Core member @ dataMinds



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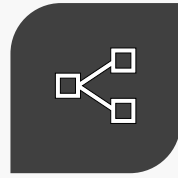
Schedule



Current
Situation



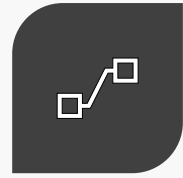
Moving
forward



How to get
started?



What's
next?



Summary

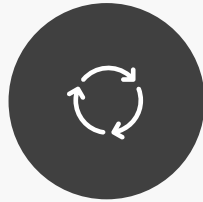
Current Situation

Environments



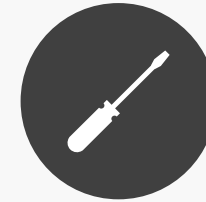
Development
Production

Process



Tracking changes
manually

Tools



SQL Server
Management
Studio

Use cases from the field (1/4)

Moving Big Projects to Production



Use cases from the field (2/4)

Priority changes



Use cases from the field (3/4)

Unwanted changes in Production



Use cases from the
field (4/4)

Code went missing



Summary - What goes wrong?

Human Mistake

Team Communication

Code management

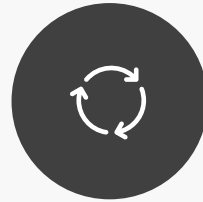
New Situation

Environments



Development
Acceptance
Production

Process



Automatic
Change Tracking

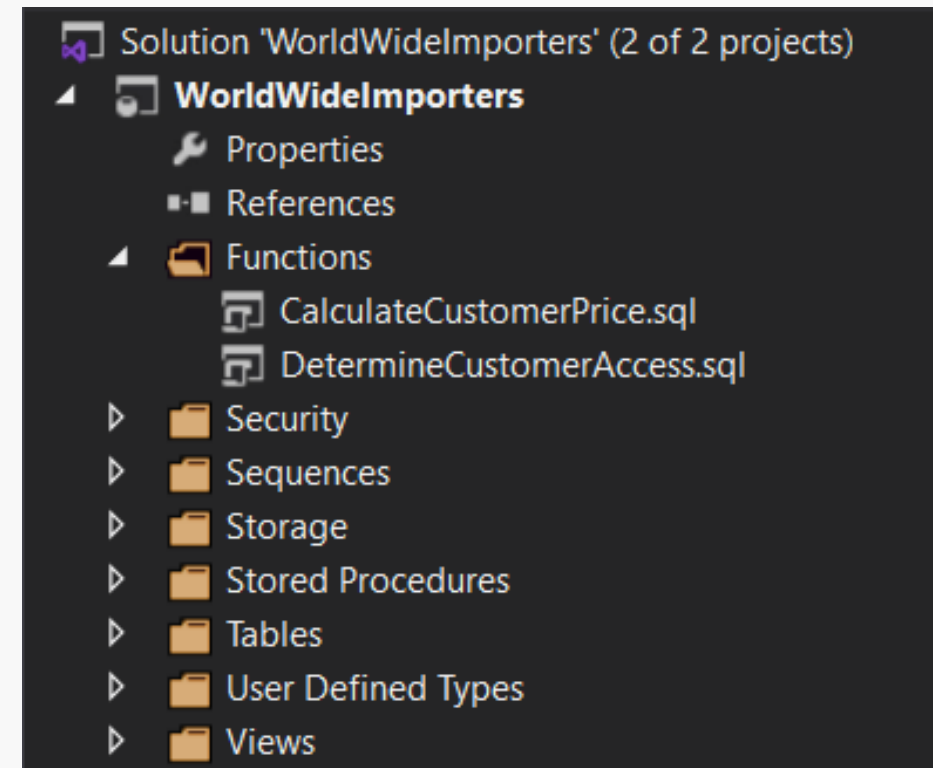
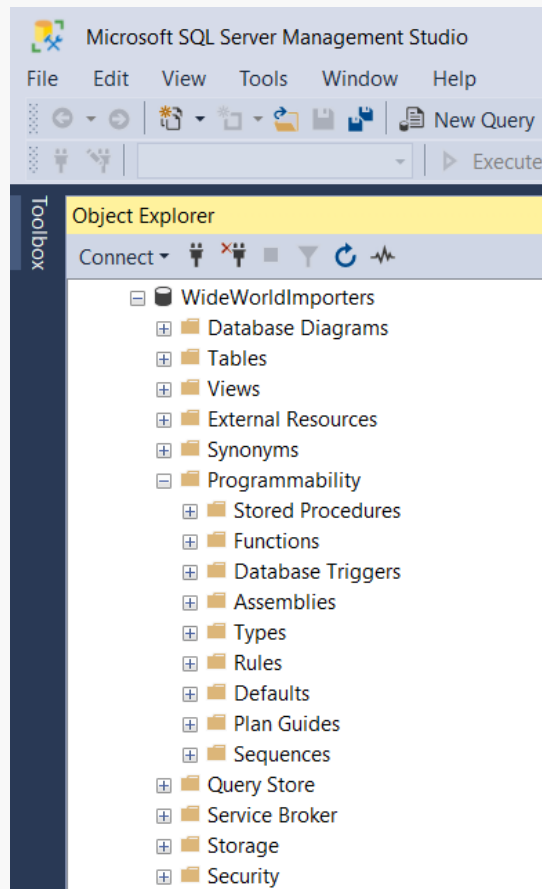
Tools



GIT
Azure DevOps
Visual Studio
(Azure Data Studio)
SSMS

Database Projects

Project Oriented Database Development



Database Projects

Database names in scripts

Indexes

Publishing Profiles

Azure DevOps

Repos

(Pipelines)

(Test Plans)

(Artifacts)

(Boards)

Repos - Git

Distributed Version Control System

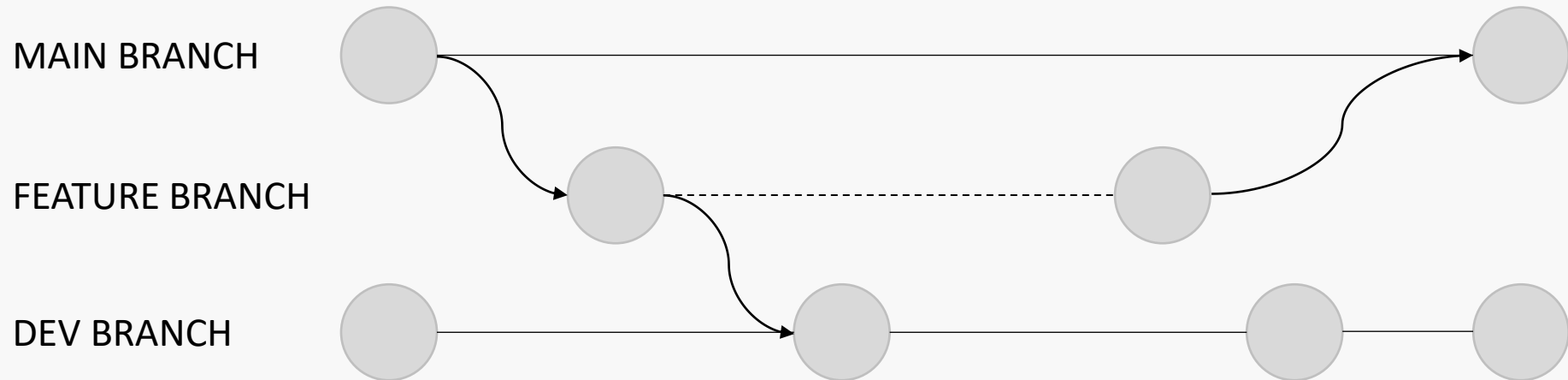
Branching

Most important Commands

- Pull
- Push
- Merge

Azure DevOps – Repos

>Branching / Feature



Source Control - Challenges

Merge Conflicts (.sqlproj file)

Pull → Merge

Branch Maintenance

People

Demo



Moving Forward

Database Project Setup ✓

Azure DevOps Setup ✓

Branching ✓

Using Pull Requests ✓

Test Automation

Deployment Automation

Benefits & Challenges

Benefits

- Easy to setup

- Clear Changelog

- Efficiency of Deploying

- Pull Requests

 - Improving Development Quality

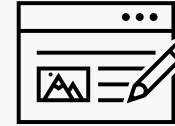
Challenges

- Changing habits (way of working)

Questions?

BI Teamlead – X²O

Core member @ dataMinds



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Feedback?

oliviers.be/feedback



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Slides?

Github.com/oliviers/sessions