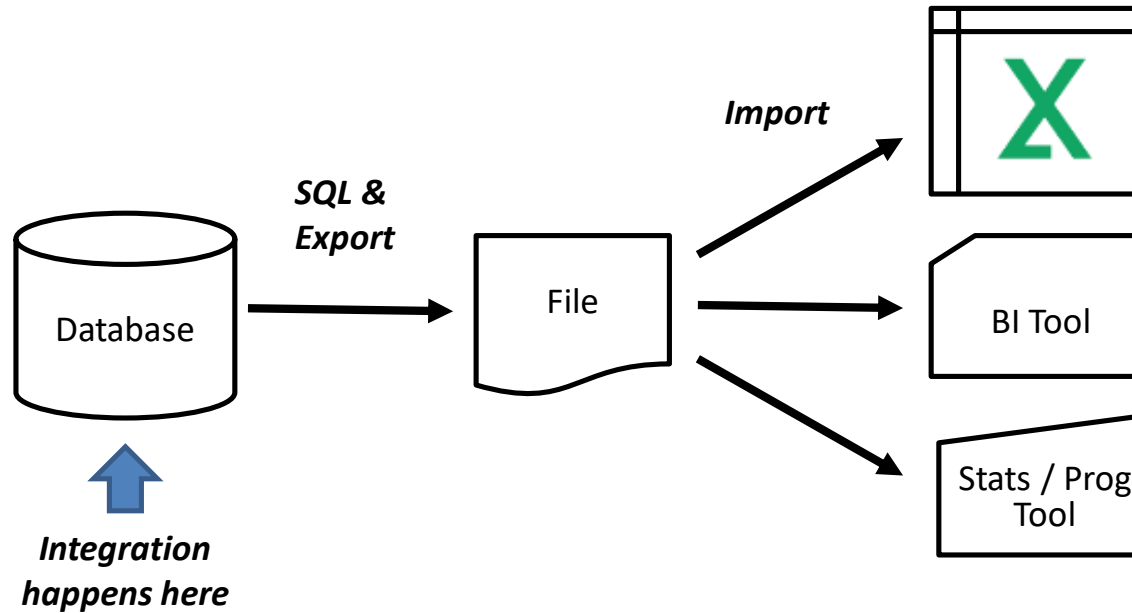


# Intermediate File Approach



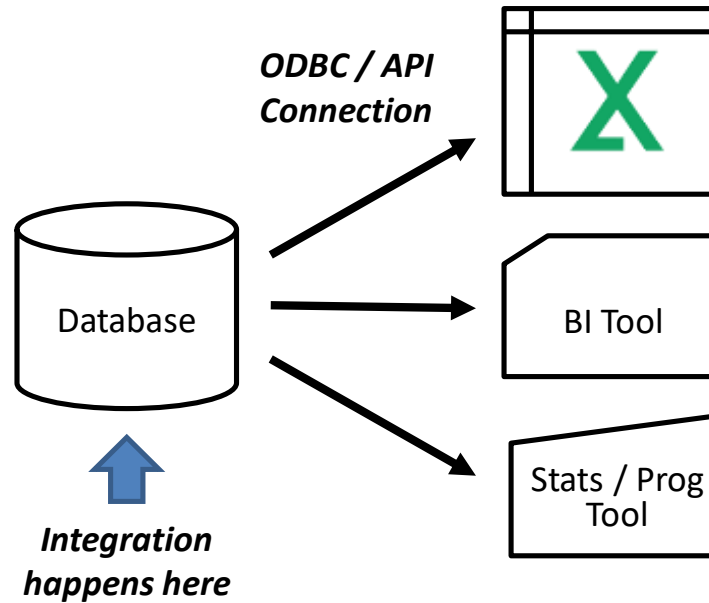
## Why?

- Analytical tools can be connected directly to databases
- Point in time or offline analysis
- Want same data set in multiple tools
- More visibility into each step

# Direct Connection Approach

ODBC = Open Database Connectivity

API = Application Program Interface



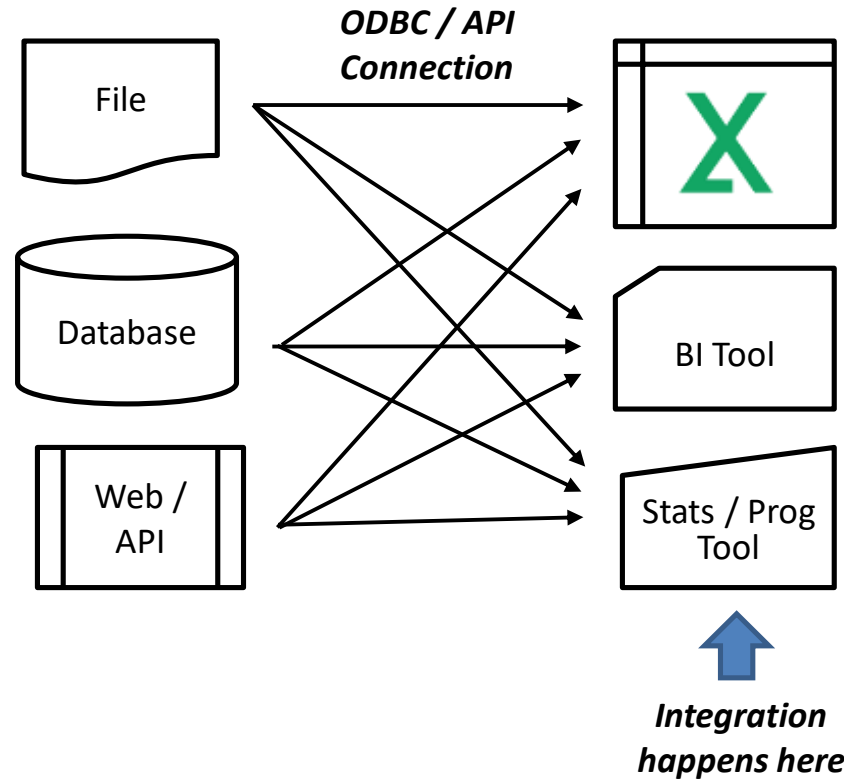
## Why?

- Eliminates steps in the process
- Can refresh as data changes

## Why not?

- Requires connection setup
- Extraction validation and offline analysis may be more difficult

# Downstream Integration Approach



## Why?

- Data exists in multiple locations
- Integration into warehouse doesn't make sense

# What Tools To Use - Excel

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## Excel – The Good

- Good for quick analysis with basic charts and graphs
- Good for sharing with limited set of business partners
- Some operations are easier and more transparent
- Natural flow into Excel-based financial models

## Excel – Challenges

- Not ideal for sharing broadly, standard reports, or dashboards
- Size & performance limitations

# What Tools To Use – BI & Beyond

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## BI Tools

- Serve a wide variety of analytical needs
- Best when advanced visualization or exploration are required
- Can have pre-built structures or calculations
- Excellent for standard report distribution

## Statistical Modeling & Programming Tools

- Best for highly sophisticated analysis
- Programming from scratch gives more control, but takes more work