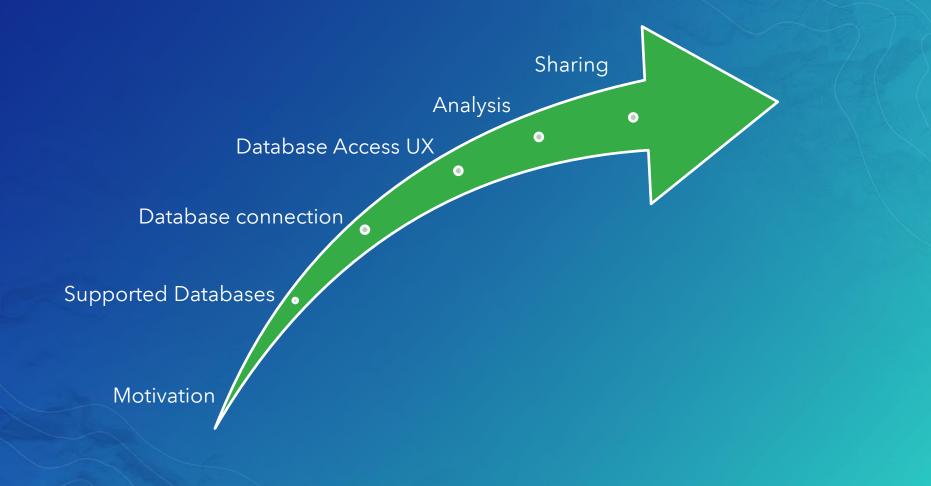
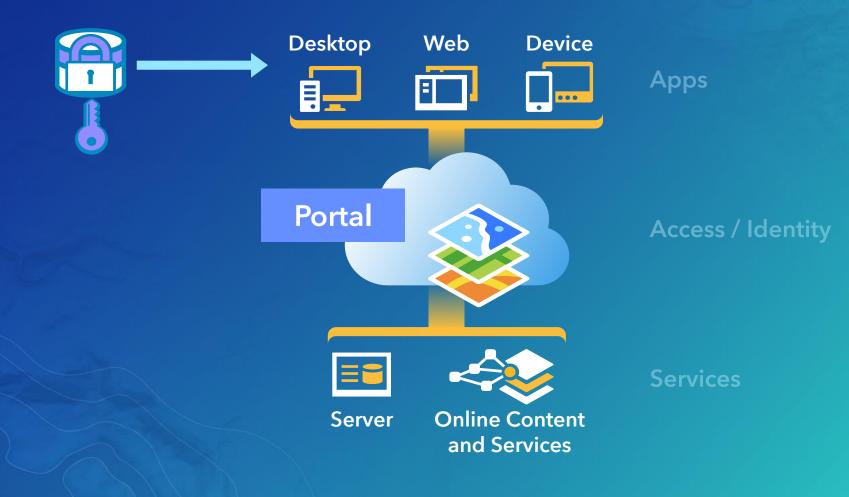


Leveraging Native Spatial Data Types in ArcGIS using Query Layers Melissa Jarman | Said Parirokh

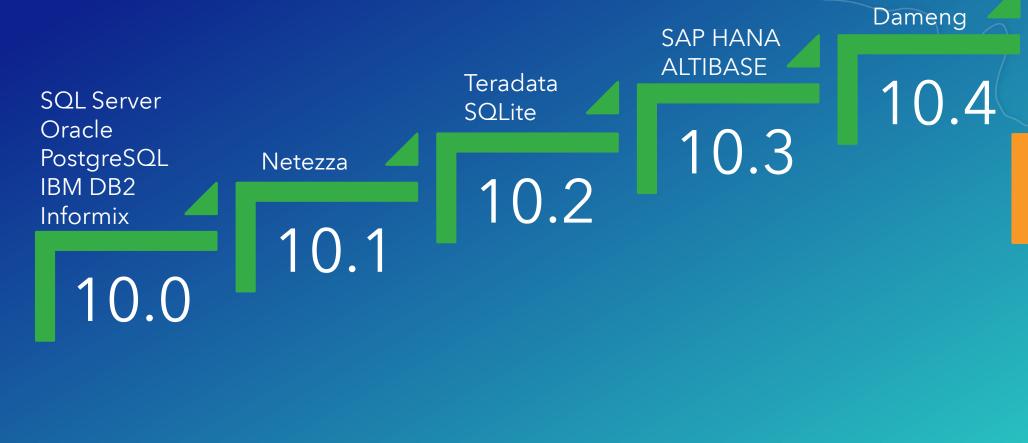
Road Map



Motivation for Database Access / Query Layers

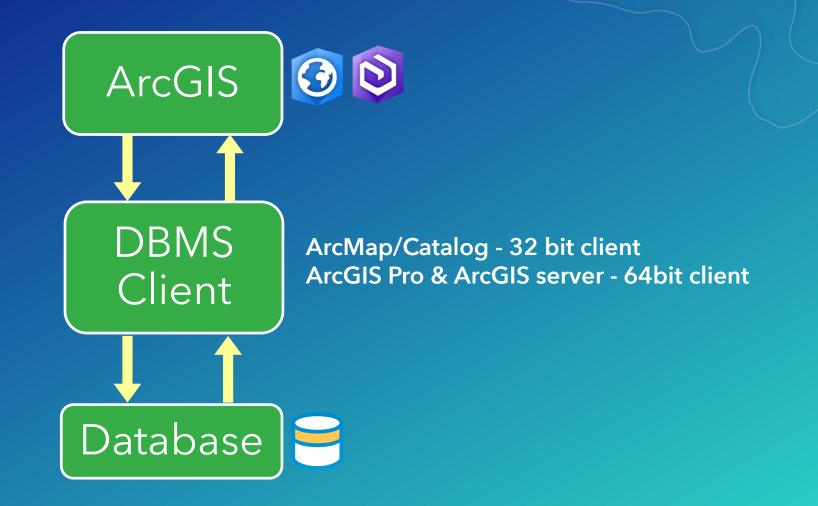


Database Access - support



ArcGIS Pro 1.2 ALTIBASE Dameng DB2 Netezza Oracle PostgreSQL SAP HANA SQL Server Teradata SQLite

How does the database connection work?

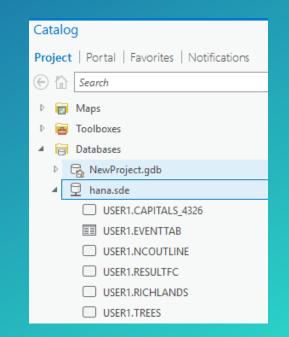


Database Access

Query layers

- 1 Accessed via database connection
 - drag/drop onto map
- 2 Create New Query Layer
 - build your own SQL

Database Connection				×
Database Platform:		SAP HAI	NA	-
Data source:		hanadev	/	
Authentication Type:		Databas	e authentication	
	User Name:		user1	
	Password:		******	
	Save User/Password			
Database:				•
			ОК	Cancel



Database Access

Query layers

1 - Accessed via database connection

Project

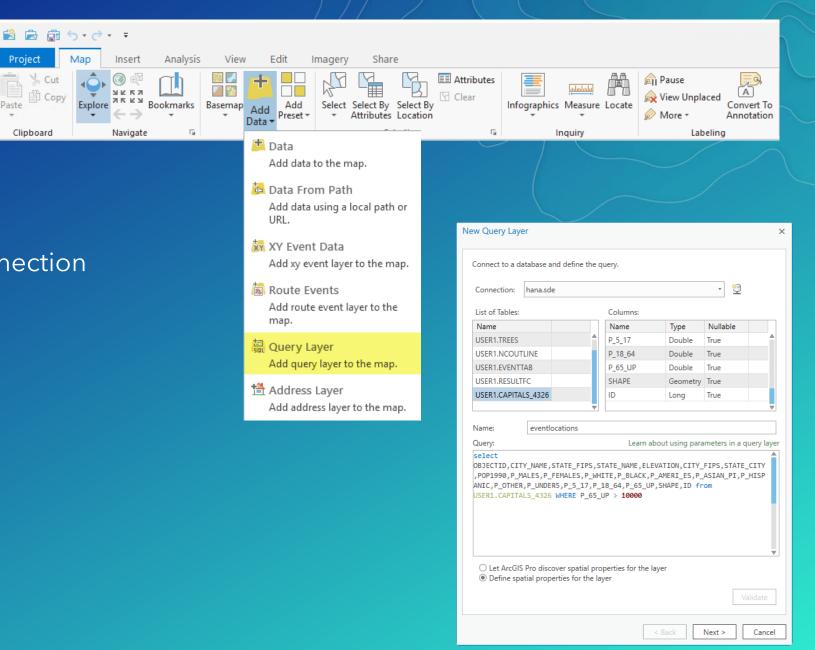
Paste

Cut

Copy

Clipboard

- drag/drop onto map
- 2 Create New Query Layer
 - build your own SQL



User Experience

ArcGIS discovers

- Unique identifier
- Geometry type of spatial field
- Spatial reference and extent

Rules for validation

- Unique Identifier field not null, contain unique values
 - Datatype: integer, string, GUID, or date
- Single spatial column and single entity type

Feature layer - not a database object

- Stored within .mxd / .aprx



Using query layers

Viewing

- Dynamic information
- Non-spatial / Spatial (native types only)
 - Database tables
 - Unregistered tables within a GDB
- Read only via database connection

Using ArcGIS tools

- Tools that perform selections or create outputs
 - Eg: Analysis tools Buffer

Editing

- Share via feature service



Query layers Custom SQL & Sharing

Said Parirokh

New features

- 10.2 Feature service support
- 10.3.1 -
 - Map service startup time
 - Added Feature services support for ALTIBSE, SAP HANA, & Teradata
- 10.4 -
 - Feature service publishing of unregistered data from a geodatabase
 - Updated 'New Query Layer' UI to allow for user to define spatial properties
 - Improves performance as only SQL validation is performed
- 10.5/Pro 1.4 Registering database views with the geodatabase
- Pro 1.4 Parameterized queries

Resources & Survey

Related Sessions

Visualize Dynamically Aggregated Results from Time Series Data Using ArcGIS Pro and Map Services

Thurs - Drawing Millions of Features in ArcGIS: Advanced Topics

Resources from this session - Geonet https://geonet.esri.com/docs/DOC-10253

- slides
- scripts from demo
- helpful links



Thank you! Fill out survey in Esri Events mobile app



Public Speaking Skills

The content of the workshop was relevant to my work



The workshop provided information or techniques I can apply to my work right away



I would recommend this workshop to a colleague

No Yes

