

UC



Troubleshooting PostgreSQL

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Agenda

Troubleshooting PostgreSQL

- Overview
 - Sdeintercept files
 - PostgreSQL log
- Configuration
- Troubleshooting Examples
 - Connection errors
 - Performance
 - SQL Syntax errors

Tracing Methods

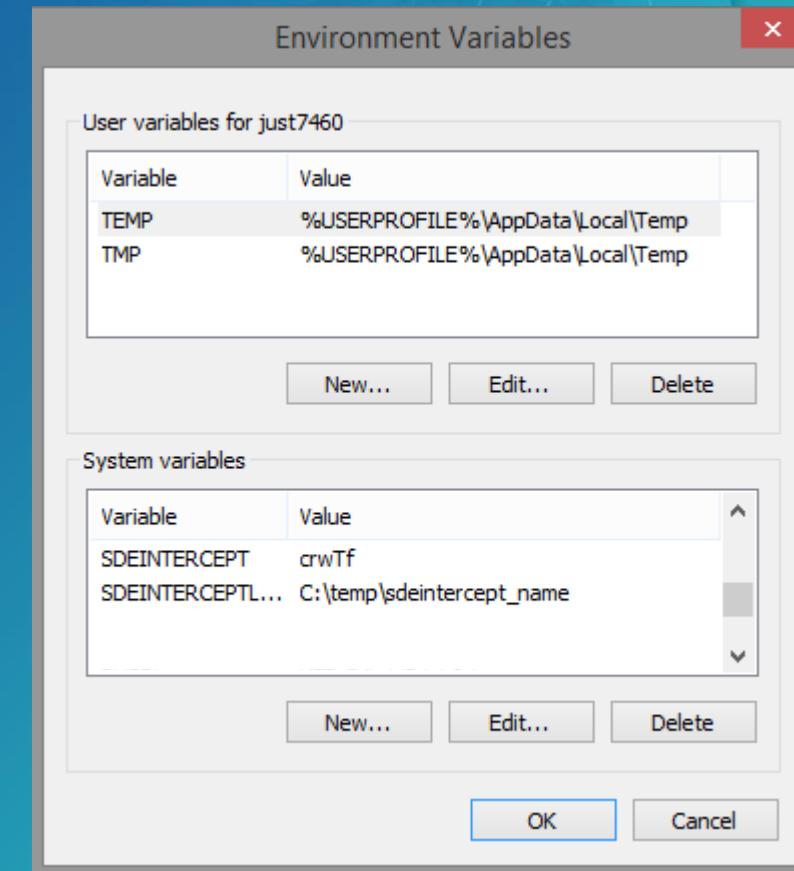
- Sdeintercept
 - Geodatabase/Client libraries
- PostgreSQL logs
 - Database



Configuring a SDEINTERCEPT

- Configure Environment Variables
 - SDEINTERCEPT = crwTf
 - c - Intercept the API command name
 - r - Intercept the Channel broadcasts read-only
 - w - Intercept the Channel broadcasts write-only
 - t/T - Intercept the log time (m:s/h:m:s)
 - f - Intercept flush immediate
 - SDEINTERCEPTLOC = location
- Command Prompt vs System Properties
- Numeric extensions (i.e. .001)

```
C:\>set SDEINTERCEPT=crwTf  
C:\>set SDEINTERCEPTLOC=C:\temp\intercept_name
```



Configuring a PostgreSQL trace

- PostgreSQL.conf file
 - ERROR REPORTING AND LOGGING section
 - All parameters specific to logging
 - Most basic:
 - Log_directory='pg_log'
 - Log_statement='all'
 - Session_preload_libraries = 'auto_explain'
 - Log_rotation_<parameter>=...
 - Log_line_prefix=...
 - C:\Program Files\PostgreSQL\9.5\data\pg_log
 - Customizable

```
log_destination = 'stderr'
# This is used when logging to stderr:
logging_collector = on
# These are only used if logging_collector is on:
#log_directory = 'pg_log'
#log_filename = 'postgresql-%Y-%m-%d_%H%M%S.log'
#log_file_mode = 0600
#log_truncate_on_rotation = off
#log_rotation_age = 1d
#log_rotation_size = 10MB

# These are relevant when logging to syslog:
#syslog_facility = 'LOCAL0'
#syslog_ident = 'postgres'

# This is only relevant when logging to eventlog (win32):
#event_source = 'PostgreSQL'

# - When to Log -
#client_min_messages = notice
#log_min_messages = warning
#log_min_error_statement = error
#log_min_duration_statement = -1

# - What to Log -
#debug_print_parse = off
#debug_print_rewritten = off
#debug_print_plan = off
#debug_pretty_print = on
#log_checkpoints = off
#log_connections = off
#log_disconnections = off
#log_duration = off
#log_error_verbosity = default
#log_hostname = off
log_line_prefix = '%m [%p]: [%l-1] '
#log_line_prefix = '%t

#log_lock_waits = off
log_statement = 'all'
#log_temp_files = -1

log_timezone = 'US/Pacific'
|
```

Configuration Tips

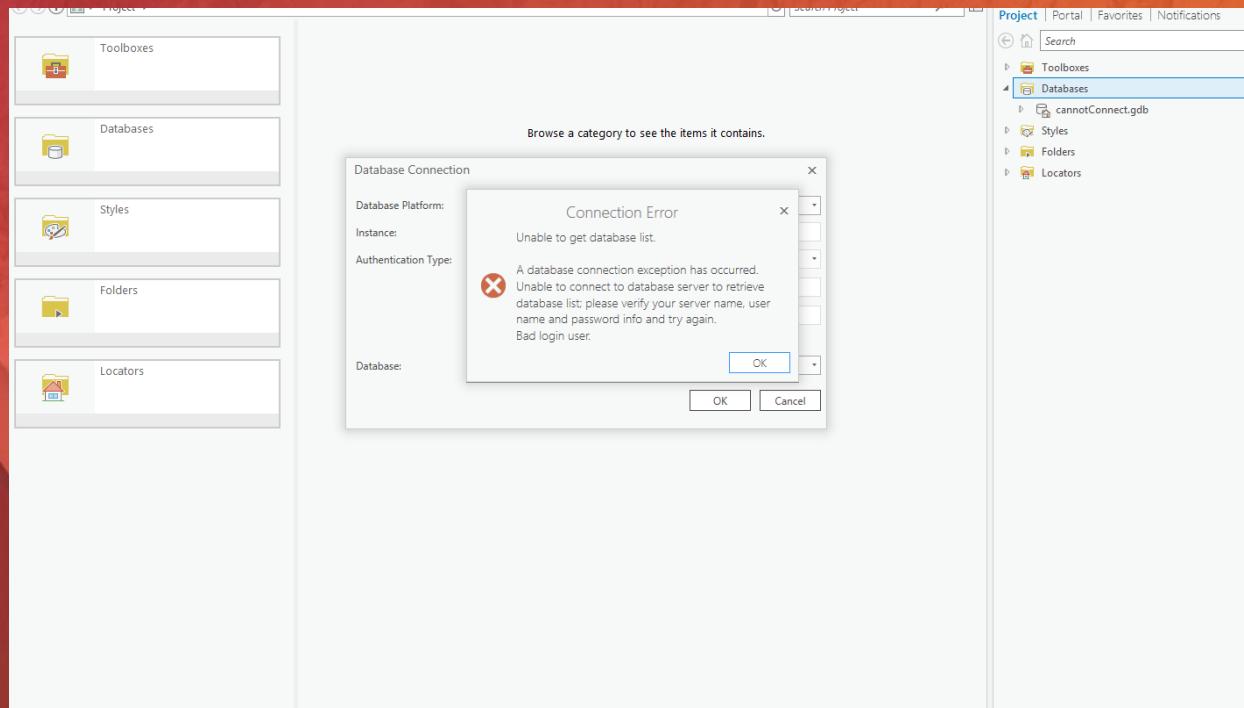
- Generate little file volume
 - Rotate the PostgreSQL log
 - Restart ArcGIS application
- Run PostgreSQL trace and SDEINTERCEPT simultaneously

Reading PostgreSQL Logs & SDEINTERCEPTS

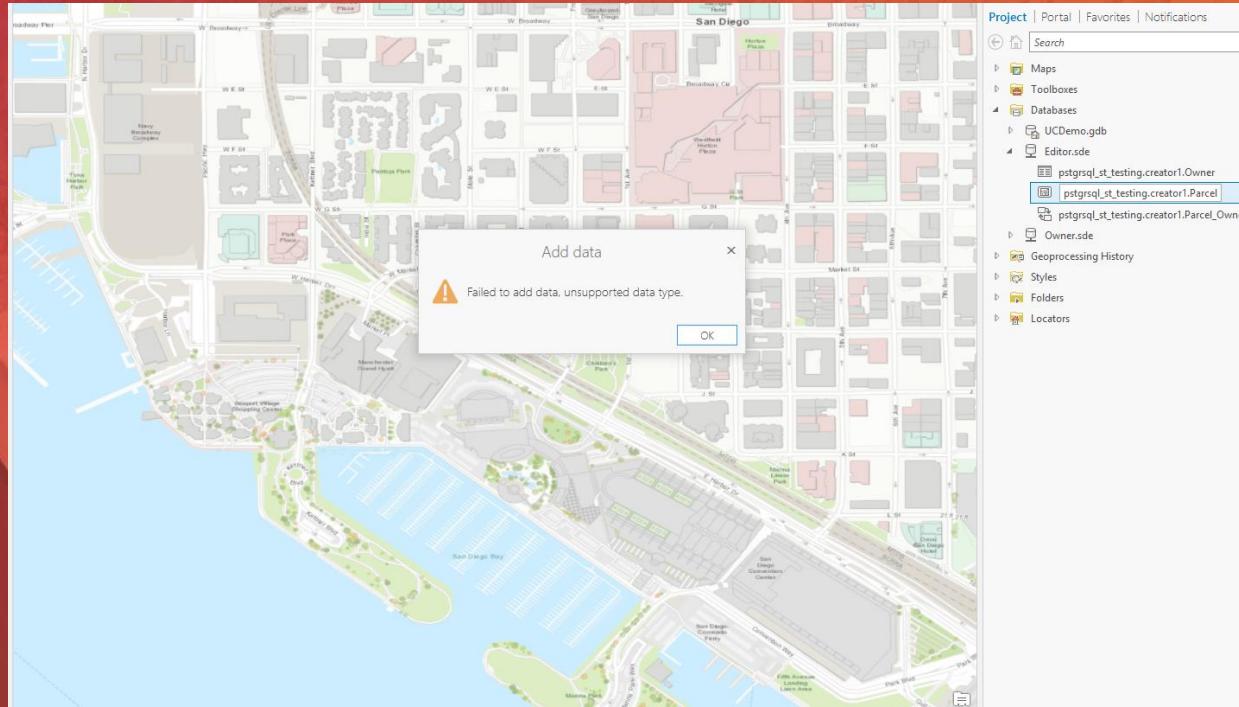
- SDEINTERCEPT
 - Text editor
- PostgreSQL
 - Text editor
 - PostgreSQL log analyzers
 - Pg_fouigne
 - Pg_badger

Troubleshooting Examples

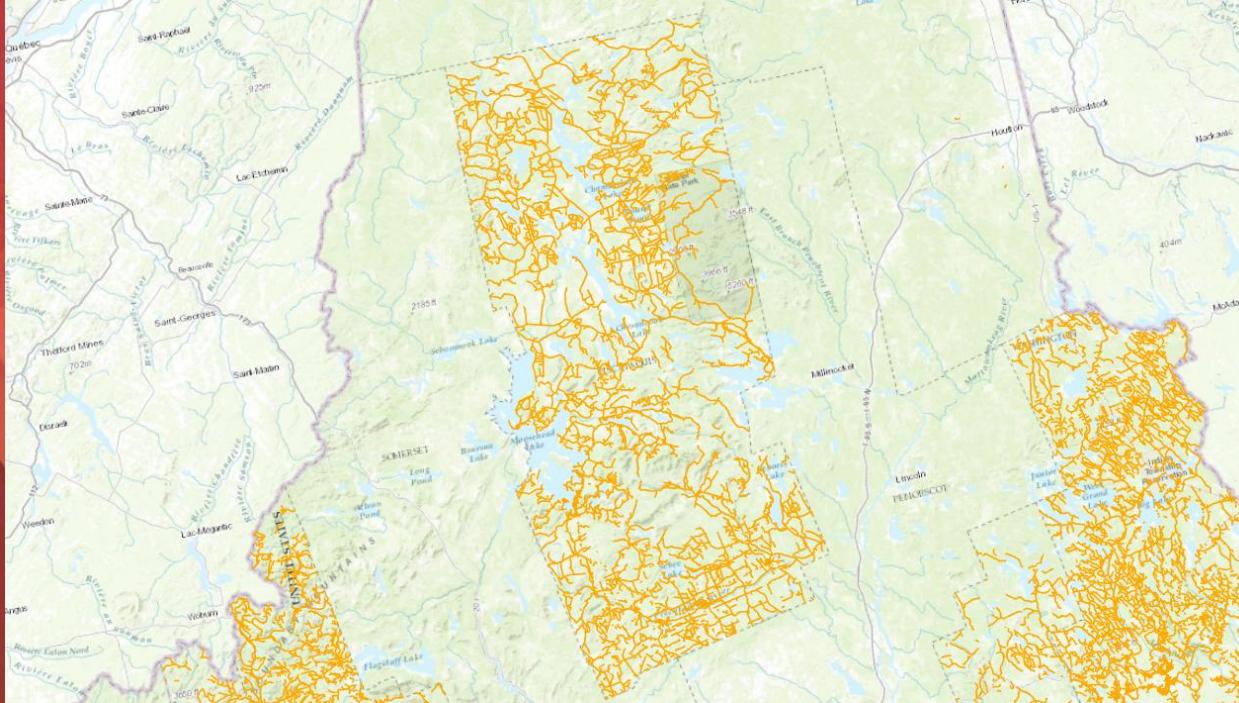
Cannot Connect

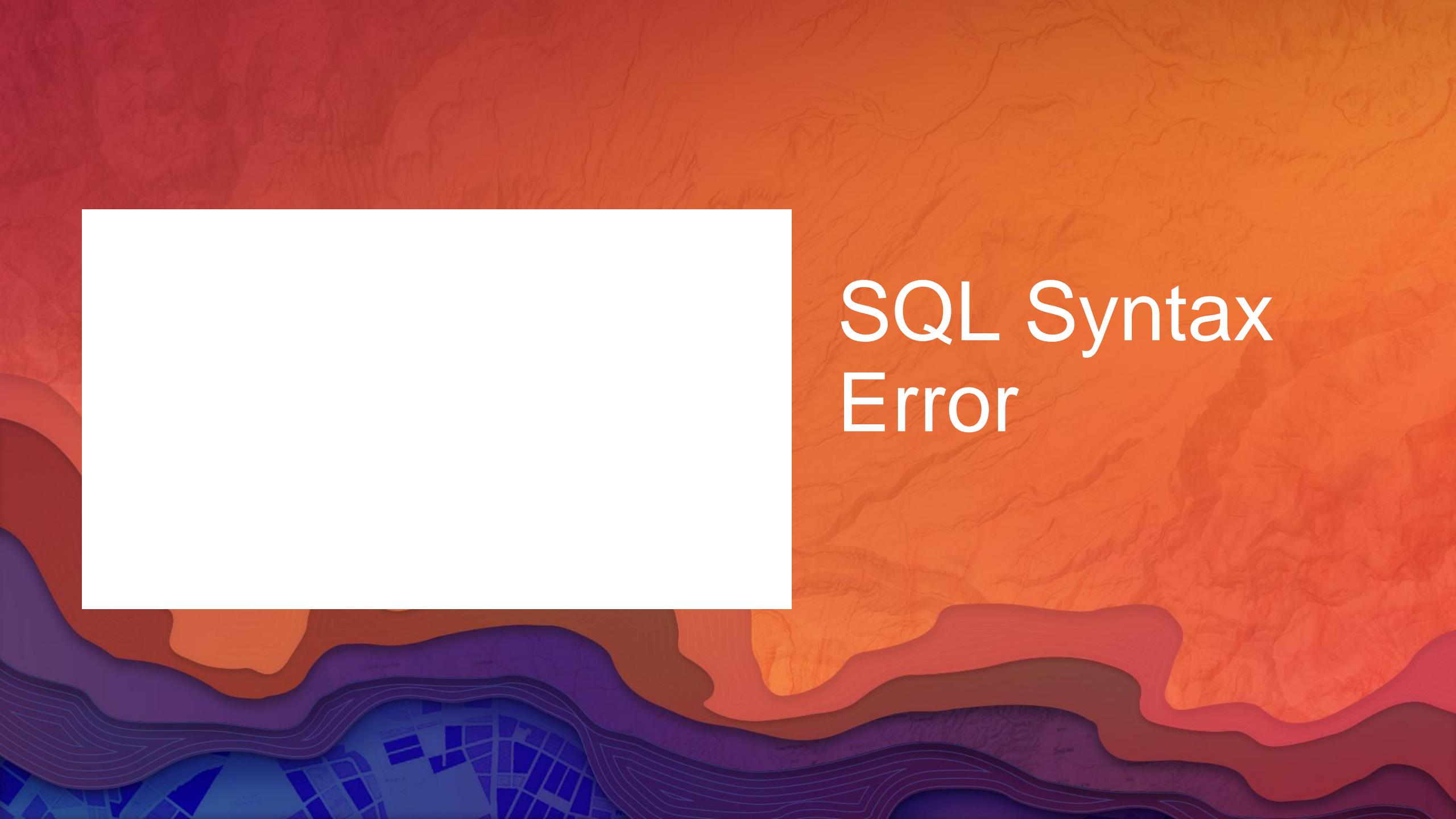


Unsupported Data Type

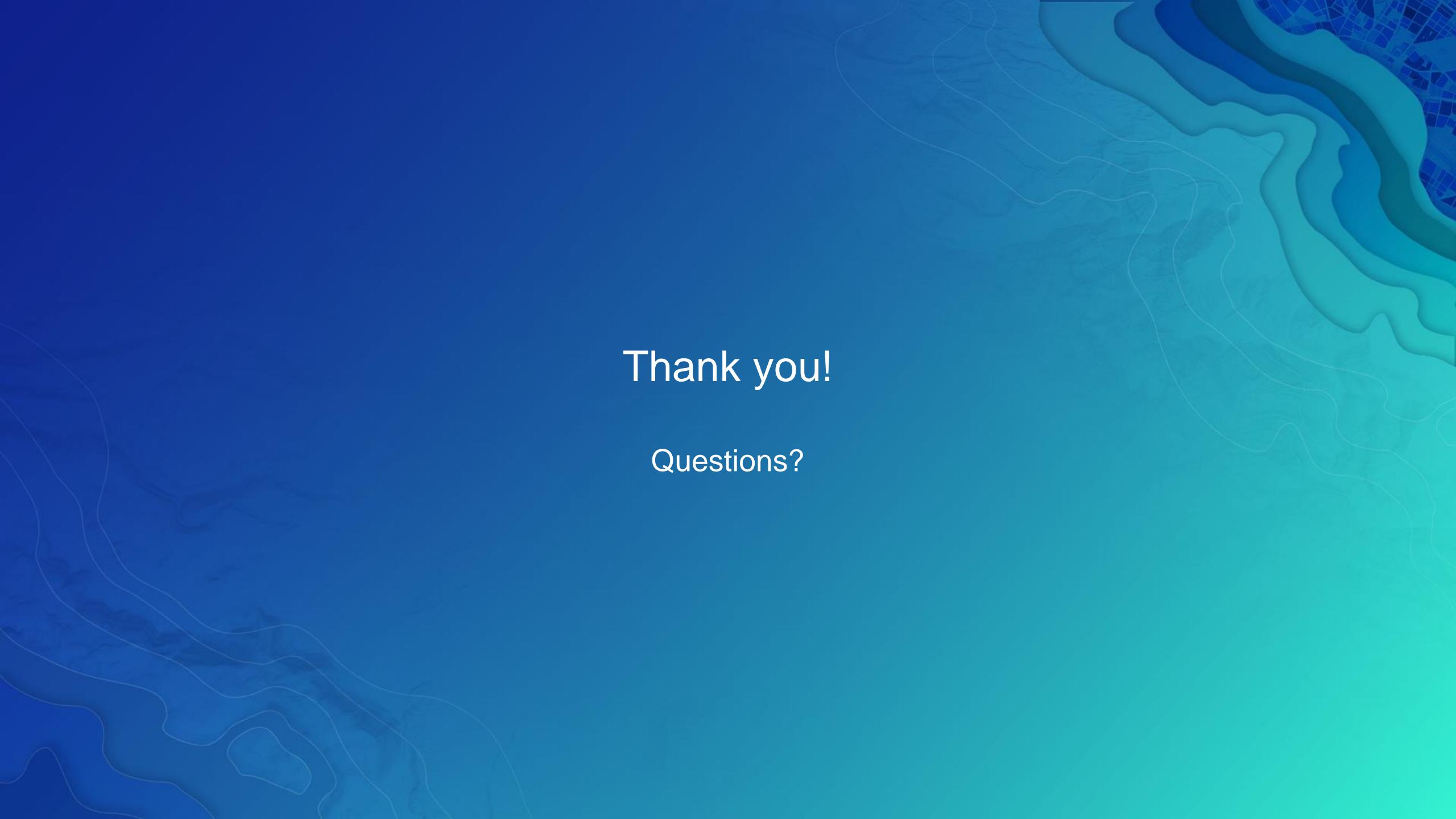


Performance **(CHANGE IMAGE)**





SQL Syntax
Error

The background features a vibrant blue gradient from left to right. Overlaid on this are several thin, white, wavy lines that resemble topographic map contours or stylized waves. In the bottom left corner, there's a darker, semi-transparent circular area.

Thank you!

Questions?



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Aspect Ratio Test



If this shape does not appear as a perfect circle, adjust the aspect ratio of your display until it does.

Try the resolution 1920x1080 for
16:9 displays.