

# The Automatic SQL Transpiler

An Oracle Database Release 23c  
New Feature



SKILLBUILDERS

# The problem: SQL and PL/SQL

- SQL and PL/SQL have different "engines"
  - The PL/SQL engine runs statically compiled code
  - The SQL engine runs dynamically parsed code
- Switching between them takes time
  - Common problem: user defined functions
  - Usually not significant, unless it occurs frequently
- Also, PL/SQL can cripple the cost based optimizer

# The Automatic SQL Transpiler

- Converts PL/SQL into SQL during the hard parse
- Transformation occurs before optimization
- Improves performance
  - Avoids context switching overhead
  - Gives the optimizer better information
- Enable with a parameter:
  - `sql_transpiler = ON | OFF`

# To conclude

- PL/SQL is good – up to a point
- The transpiler mitigates some performance issues
- Not perfect yet
  - Some limitations in the current release
  - Possibly better to use pure SQL if you can
- Give it a try – you have nothing to lose

# SkillBuilders

Oracle Database, APEX and OCI Experts

Contact: Gary Belke  
gary@skillbuilders.com  
1-401-783-6172  
www.SkillBuilders.com

