yugabyteDB

GOINGFORGOLD

Understanding the Different Levels of PostgreSQL Compatibility

RUNTIME COMPATIBILITY
Full PostgreSQL Experience

- Ensures the database behaves identically to PostgreSQL at runtime.
- Maintains compatibility with wire, syntax, and feature metrics.
- Supports system catalog queries, error messages, and error codes.
- Developers familiar with PostgreSQL will feel right at home throughout the entire development process.

FEATURE COMPATIBILITY
Unleashing Advanced Capabilities

- Supports advanced PostgreSQL features beyond the ANSI SQL standard.
- Examples include triggers, partial indexes, and stored procedures.
- Developers may find that some equivalent features require different syntax, necessitating application modifications.

SYNTAX COMPATIBILITY
Parsing PostgreSQL Commands

- Parses PostgreSQL syntax for creating tables, executing SQL statements, and generating valid results.
- Differences may exist in command execution, such as ignoring certain parameters.
- Developers can leverage PostgreSQL tools and frameworks with accurate syntax.

WIRE-PROTOCOL COMPATIBILITY*
Seamless Communication

- Enables communication between PostgreSQL client drivers and database.
- Supports easy exploration of schemas and queries.
- Developers can build applications using various programming languages and command-line tools.

PARTICIPATION

*Note: Each level builds upon the previous one, with runtime compatibility encompassing all other compatibility metrics.

Learn how to harness the power of PostgreSQL as a cloud-native database solution.
Download Embrace, Extend, Evolve—Making PostgreSQL Work for a Cloud Native World