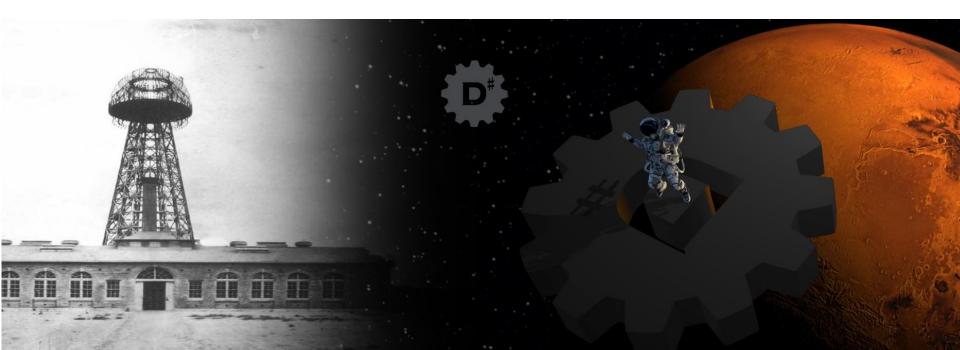# D# v.2.4 / 2.4.1

Features'n'Fixes v.2.4

– License handling

- A license now has a *target,* typically a specific customer or a specific solution
- The target name is visible in all generated procedure and view headers
- The target name is visible in the SmartEngine main window's title bar
- SmartEngine displays a warning in the main window's status bar once there are less than 30 days left before the license expires

Features'n'Fixes v.2.4

- New analysis functionality
  - Link-to-link –situations are automatically detected when analysing the Conceptual model
  - UI command: Unmapped attributes listed (attributes with no corresponding data source)
- Datatypes
  - Property pane shows the base data of the datatype, including description and how it maps to its appropriate SQL datatype
  - Fix: varchar datatypes now implemented with correct template-based sizes
    - If changed, the deployment package will try to correct the column sizes for existing tables included in the deployment package

Features'n'Fixes v.2.4

- Comments-column added to most table types
  - Existing tables will automatically be altered if included in the incremental deployment packages
- HTML documentation
  - Data Lineage information previously only available through the UI now added to the HTML ER-model documentation
    - For each table, diagrams with incoming and outgoing data flows on table level, and
    - Column level in- and outgoing data flows

Features'n'Fixes v.2.4

- Fix: Large deployments (millions of rows of SQL code) no longer halt the SQL code generation due of OutOfMemory errors
- Classes with the Implement parameter set to *false* can now be "rough and incomplete" without affecting the DW automation
- The calendar dimension now correctly installs when using the Full DW Installation command
- Automatic horizontal scroll bars added to text windows for added convenience

Features'n'Fixes v.2.4.1

- More efficient view layer, eliminating real-time hash calculations when referencing Description classes, by
  - fetching the hash from the appropriate hub and
  - indexing the BK column in that hub
- Deployment packages can now be built for individual database objects directly from the Server Model pane
- Long index names now shortened if the name exceeds 100 characters

Thank you!

D# Team

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