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Using Parse-Dia-SQL to generate SQL from UML Dia diagram and how to install it under Mageia

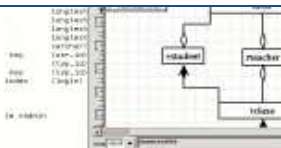
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(http://www.linux-wizard.net/wp-content/uploads/2014/10/dia2sql_1.png) It can be tedious when designing an application (and not using frameworks like Symfony) to design your database and then create corresponding SQL scripts. Thanks to *Parse-Dia-SQL* you can design your database using Dia (<http://dia-installer.de/>) and then generate corresponding SQL script for your database.

Ubuntu users just need to install *libparse-dia-sql-perl* package.

Windows may download *Parse-Dia-SQL* installer directly from Dia homepage : <http://dia-installer.de/parse-dia-sql/index.html> (<http://dia-installer.de/parse-dia-sql/index.html>)

Now let's see how to install *Parse-Dia-SQL* under Mageia :

- Install minimal set of dependencies. To found corresponding Mageia packages, use `urpmf --provides --literal`. For example to found `Html::Lint`, just do : `urpmf --provides --literal 'perl(Html::Lint)'`
- Install corresponding minimal set of dependencies for <http://search.cpan.org/dist/Parse-Dia-SQL/> (<http://search.cpan.org/dist/Parse-Dia-SQL/>) : `urpmi perl-base perl-Log-Log4perl perl-XML-DOM perl-HTML-Lint perl-Text-Table perl-Text-Aligner perl-Test-Exception`
- Install CPAN : `urpmi perl-devel`

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➤ Now to create a SQL file from your Dia diagram, just do : `parsediasql --file db_model_file.dia --db dbtype`

- Supported values for dbtype are : mysql-innodb, mysql-myisam, postgres (for PostgreSQL), db2, oracle, sqlite3, sqlite3fk, mssql and html

Now to create your UML model with Dia, use Dia's UML shapes :

- SQL table are UML Class
- To mark an attribute as being a primary key, set Visibility = protected
- To add NOT NULL and DEFAULT xxx to your attributes, first add the default value and then the NULL or NOT NULL in Value field. For example to have DEFAULT *CURRENT_TIMESTAMP* NOT NULL on your SQL file, just add **CURRENT_TIMESTAMP NOT NULL** in Value field
- Additional indexes can be create in *[Operations]* tab where :
 - Operation Name = Index name (e.g *table_col_idx*)
 - Operation Type = Index type (*INDEX* or *UNIQUE INDEX*)
 - Parameters = Index columns (one parameter name for each column name in the index)
 - Stereotype: Index type — For PostgreSQL, you can choose other than btree (hash, gist, gin). Please note that GIN indexes may be useful for JSON datatype (<http://www.postgresql.org/docs/9.4/static/datatype-json.html>)
- Foreign-keys constraint are done with UML aggregation tool (line with a diamond at one end) in which in its

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as attribute type 😊

Links:

Automatic SQL generation using Dia (<http://www.coderholic.com/automatic-sql-generation-using-dia/>)

Database design with Dia (<http://left.subtree.org/2007/12/05/database-design-with-dia/>)

Utilisation de Dia2SQL (Fr) (<http://ll.lairdutemps.org/linux/dia2sql>)

Using Dia to Interact With tedia2sql (<http://tedia2sql.tigris.org/usingtedia2sql.html>) (Parse-Dia-SQL is a fork of tedia2sql to support latest Dia version, documentation for tedia2sql is relevant for Parse-Dia-SQL too)

Parse-Dia-SQL homepage (<https://github.com/aff/Parse-Dia-SQL>)

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Antoine @Ant1Adam

"Lève-toi jusqu'aux cieux portique de victoire. Que le géant de notre gloire puisse passer sans se courber."

Victor Hugo





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