

javadoc2sql with pgcomment

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pgcomment is part of the
PostgreSQL Toolbox

<http://pg-toolbox.projects.postgresql.org/>

Motivation

- “real coders *type*, they don't *click*”
 - So I write my SQL schemas in emacs
 - I mainly use psql for database work
 - I like the PostgreSQL object comments
 - When writing code I use javadoc style inline source code documentation
 - I can generate HTML and LaTeX docs from javadoc comments
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Solution

- Tool to convert javadoc comments in SQL to “COMMENT ON” commands
- Convert javadoc to HTML and LaTeX

- “2 hour” perl program to do the job



Example

```
/** table example
```

```
    The table "example" shows how to set the  
    column comments in a table.
```

```
    @column nr      the primary key as artificial  
                    autoassigned integer
```

```
    @column name   a person's name
```

```
    @column job    a person's job description
```

```
*/
```

```
create table example (
```

```
    nr      serial,
```

```
    name   text not null unique,
```

```
    job    text not null
```

```
);
```

COMMENT ON

COMMENT ON COLUMN *example.nr* IS 'the primary key as artificial autoassigned integer';

COMMENT ON COLUMN *example.name* IS 'a person's name';

COMMENT ON COLUMN *example.job* IS 'a person's job description';

COMMENT ON TABLE *example* IS 'The table "example" shows how to set the column comments in a table.';

HTML fragment

```
<h2>TABLE example</h2>
```

The table "example" shows how to set the column comments in a table.


```
<b>Column <i>nr</i>:</b> the primary key  
as artificial autoassigned integer<br/>
```

```
<b>Column <i>name</i>:</b> a  
person&apos;s name<br/>
```

```
<b>Column <i>job</i>:</b> a person&apos;s  
job description<br/>
```

LaTeX fragment

```
\section{TABLE: example}
```

The table "example" shows how to set the column comments in a table.

```
\textbf{Column nr:}\quad\ the primary key as  
artifical autoassigned integer
```

```
\textbf{Column name:}\quad\ a person's name
```

```
\textbf{Column job:}\quad\ a person's job  
description
```

TODO

- Short term: more robust parser for javadoc comments, instead of ad-hoc regular expressions
- Long term: extend *doxygen* to support SQL