

Advanced Database Design System

USER MANUAL

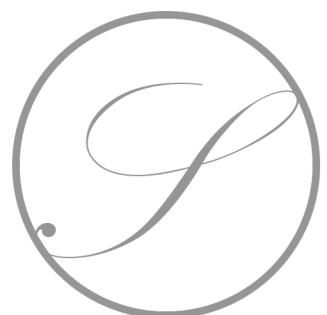
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Extract a .zip file and your good to go!

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Run the program via. command prompt to produce heuristics



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Perfect conceptual schema designs. Everytime.

When designing conceptual schemas, it's hard to know when your design is 100% correct.

This product aims to help undergraduate students achieve higher quality conceptual schema designs and hence, ultimately achieve higher grades. “

Look before you leap” translates to “Validate your design before submitting” in the database design world.

1

SETUP

- ▶ How the product works
- ▶ Artifacts produced

SO HOW DOES THIS WORK?

After reading a text file containing Textual Conceptual Modelling Language (TCML), the product produces several artifacts.

The end-user can then use these as heuristics to evaluate their conceptual schema design.

What are you waiting for? Higher grades are just a page away.
PS: Windows is required

YOUR DESIGN. YOUR HEURISTICS.

SQL script You know.. its nice to know what your conceptual schema design is actually creating. The SQL script contains “create table” SQL statements so that you can confirm what tables your design declares.

1

Parametrized schema visualization “A picture is worth a thousand words”, exclaimed Arthur Brisbane. Compared to an interactive medium pinpointing the warnings/errors location, its tedious spotting bad design flaws and errors when reading command line output.

2

Automatically generated DTD (Document Type Definition) and XML Schema Software is made to make peoples lives easier. Why not have a product that generates files to validate your schema design? Now you never have to worry about not closing tags, or incorrectly typing “<myElement>” instead of “<myElement>”.

3

SUMMARY SETUP

- » The product works by reading in a .txt file, adhering to TCML specification
- » It then produces several artifacts, which can be used as heuristics to know your designs quality

2

USAGE

- ▶ Running the product
- ▶ Runtime arguments

Step by step

Chances are, your database lab machine already has the needed software pre-installed and pre-configured just for you by your subject coordinator (how nice of him).

If you're one of these people, follow the simple instructions on the following page.

RUNNING THE PRODUCT

Extract
schema-eval.zip to
find a folder
“schema-eval”.

1

Run **doit.bat** to install
the product, and then
runit.bat <filename>
to generate the
artifacts (SQL script,
schema visualization,
DTD and XML
schema).

Optionally, you can
control what products
are produced by using
arguments (see next
page).

Open **command
prompt** & change
directory into the
folder

2

You should be over
the moon! The
heuristics have been
created. Too easy!

View the **SQL script**,
DTD and **XML
Schema** in a text
editor, and the
schema visualization
HTML page
(“index.htm”) using
your favourite
browser.

PRODUCT RUNTIME ARGUMENTS

- d Generate DTD
- g Generate webpage showing schema visualization
- s Generate SQL script
- x Generate XML Schema



Try it out! In your command prompt, type:

```
runit exampleTCML.txt -d -g
```

to get a DTD and a webpage, to visualize your schema.

SUMMARY

USAGE

- » The product is run from command line
- » Take advantage of the numerous runtime arguments for added flexibility