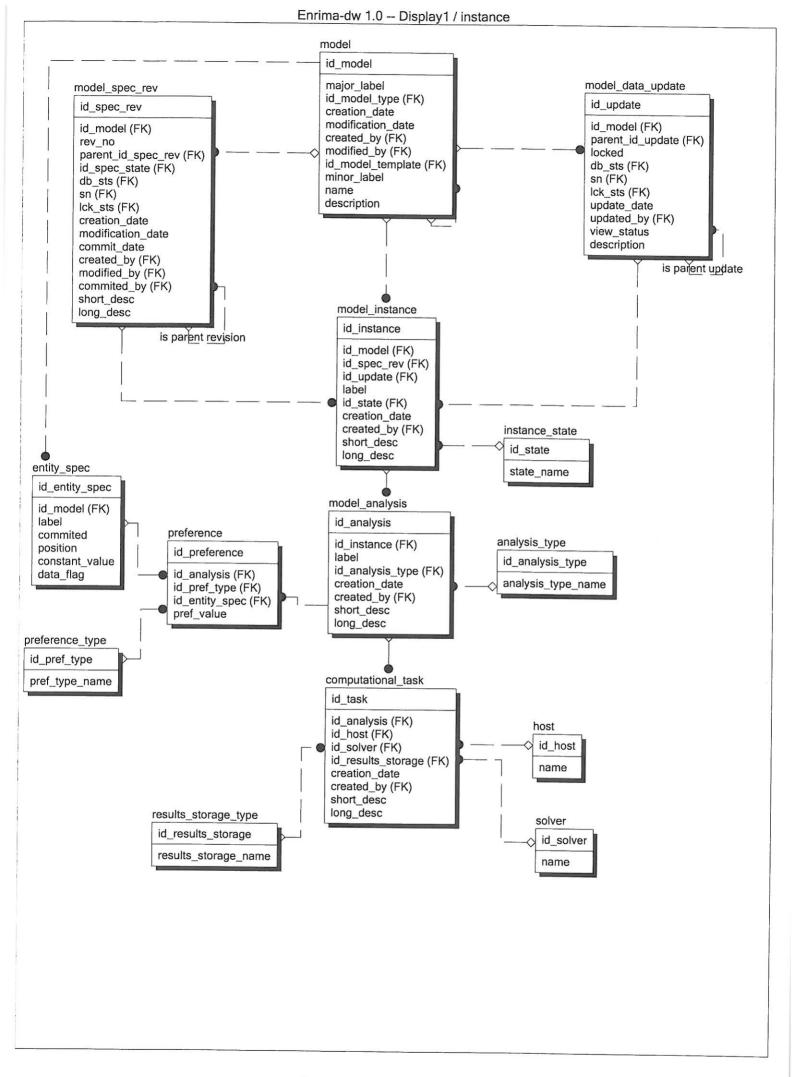# EnRiMa Data-Warehouse (DW) Schema

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In response to the interest of the project partners, we post the EnRiMa DW schema implemented during Summer in PostgreSQL, and shortly presented during the Trondheim mtg. As explained in the D4.1a (section on the Kernel architecture), the DW is the bottom-layer of the DSS Kernel; therefore, it is transparent for the client-applications (GUI, scen-gen, solver, data-wrappers integrated with buildings' ICT) that shall communicate through Web-Services (WSs) to be provided by the Kernel.

As explained last Tuesday, the schema does not include yet space for handling data corresponding to the Kernel functionality planned to be provided in RP3, e.g., users, ACL, modeling journal. Moreover, the schema will be modified to handle the data structures that can support more effective (than already available through the current schema) sharing data by scen-gen. and solver (still under discussion).

Enrima-dw 1.0 -- Display1 / spec

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model

id_model
major_label
id_model_type (FK)
creation_date
modification_date
created_by (FK)
modified_by (FK)
id_model_template (FK)
minor_label
name
description

model_spec_rev

id_spec_rev
id_model (FK)
rev_no
parent_id_spec_rev (FK)
id_spec_state (FK)
db_sts (FK)
sn (FK)
lck_sts (FK)
creation_date
modification_date
commit_date
created_by (FK)
modified_by (FK)
commited_by (FK)
short_desc
long_desc

is parent revision

model_data_update

id_update
id_model (FK)
parent_id_update (FK)
locked
db_sts (FK)
sn (FK)
lck_sts (FK)
update_date
updated_by (FK)
view_status
description

is parent update

model_instance

id_instance
id_model (FK)
id_spec_rev (FK)
id_update (FK)
label
id_state (FK)
creation_date
created_by (FK)
short_desc
long_desc

instance_state

id_state
state_name

entity_spec

id_entity_spec
id_model (FK)
label
commited
position
constant_value
data_flag

preference

id_preference
id_analysis (FK)
id_pref_type (FK)
id_entity_spec (FK)
pref_value

model_analysis

id_analysis
id_instance (FK)
label
id_analysis_type (FK)
creation_date
created_by (FK)
short_desc
long_desc

analysis_type

id_analysis_type
analysis_type_name

preference_type

id_pref_type
pref_type_name

computational_task

id_task
id_analysis (FK)
id_host (FK)
id_solver (FK)
id_results_storage (FK)
creation_date
created_by (FK)
short_desc
long_desc

host

id_host
name

solver

id_solver
name

results_storage_type

id_results_storage
results_storage_name

model

id_model

major_label
id_model_type (FK)
creation_date
modification_date
created_by (FK)
modified_by (FK)
id_model_template (FK)
minor_label
name
description

set_spec

id_set_spec

id_model (FK)
label
commited
parent_id_set (FK)
id_iter_cont (FK)
position

is subset of

uploaded_set

id_uploaded_set

id_file_upload (FK)
id_set_spec (FK)

file_upload_info

id_file_upload

id_update (FK)
file_location
file_name
file_date
file_author
data_date
data_comment

uploaded_entity

id_uploaded_entity

id_file_upload (FK)
id_entity_spec (FK)

model_data_update

id_update

id_model (FK)
parent_id_update (FK)
locked
db_sts (FK)
sn (FK)
lck_sts (FK)
update_date
updated_by (FK)
view_status
description

is parent update

iterator_container

id_iter_cont

id_model (FK)

entity_spec

id_entity_spec

id_model (FK)
label
commited
position
constant_value
data_flag

set_data

id_set

id_set_spec (FK)
id_tuple (FK)

tuple

id_tuple

id_iter_cont (FK)

entity_values

id_entity_spec (FK)
id_update (FK)
id_tuple (FK)

value

set_member

id_set (FK)
id_update (FK)
id_member (FK)

is_member

tuple_element

id_tuple (FK)
id_member (FK)
position

is main set

members_dictionary

id_member

id_set (FK)
code
description

entity_spec

- id_entity_spec
- id_model (FK)
- label
- commited
- position
- constant_value
- data_flag

tuple

- id_tuple
- id_iter_cont (FK)

parameter_values_view

- id_update (FK)
- id_entity_spec (FK)
- id_tuple (FK)
- value

model_data_update

- id_update
- id_model (FK)
- parent_id_update (FK)
- locked
- db_sts (FK)
- sn (FK)
- lck_sts (FK)
- update_date
- updated_by (FK)
- view_status
- description

is parent update

set_member_view

- id_update (FK)
- id_set
- id_tuple
- member_code

set_data

- id_set
- id_set_spec (FK)
- id_tuple (FK)

is main set

set_member

- id_set (FK)
- id_update (FK)
- id_member (FK)
- is_member

members_dictionary

- id_member
- id_set (FK)
- code
- description