Database model documentation

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1. Model details

Model name:

akustikaproov-ii

Version:

2.4

Database engine:

PostgreSQL

Description:

DB model for ELU project "Akustikaproov II"

2. Tables

2.1. Table stage

Description:

point datatype - (x,y) representing lat / long

2.1.1. Columns

Column name	Type	Properties	Description
id	serial	PK	
name	text		
county	varchar(255)		
address	text		
longitude	float		
latitude	float		
deleted	boolean		
created	timestamp		
edited	timestamp		

2.2. Table stage_image

Description:

Contains image filenames for particular stage.

Deleted attribute not necessary imo, when deleting image then we remove it from the server and no point in keeping record.

Filename should be unique (UUID for example) to avoid collision with other files.

2.2.1. Columns

Column name	Type	Properties	Description
id	serial	PK	
stage_id	int		
filename	text		
deleted	boolean		
created	timestamp		
edited	timestamp		

2.3. Table user

Description:

Table for admins - user that are allowed to add new locations.

My suggestion is to prefill this table with allowed emails and for logging in use OAuth2 to validate user and get email to compare record with.

2.3.1. Columns

Column name	Type	Properties	Description
id	serial	PK	
name	varchar(255)		
email	varchar(255)		
deleted	boolean		
created	timestamp		
edited	timestamp		

2.4. Table stage_data

Description:

Contains values about stage general data, for example length, width, amount of steps, built when & by who

2.4.1. Columns

Column name	Type	Properties	Description
id	serial	PK	
stage_id	int		
stage_data_type_id	int		
value	text	null	
deleted	boolean		
created	timestamp		
edited	timestamp		

2.5. Table stage_data_type

2.5.1. Columns

Column name	Type	Properties	Description
id	serial	PK	

type	text		
deleted	boolean		
created	timestamp		
edited	timestamp		

2.6. Table measurement_unit

2.6.1. Columns

Column name	Type	Properties	Description
id	serial	PK	
unit	varchar(125)		
deleted	boolean		
created	timestamp		
edited	timestamp		

2.7. Table measurement_result_type

2.7.1. Columns

Column name	Type	Properties	Description
id	serial	PK	
type	varchar(125)		
deleted	boolean		
created	timestamp		
edited	timestamp		

2.8. Table measurement_result

2.8.1. Columns

Column name	Type	Properties	Description
id	serial	PK	
measurement_unit_id	int		
measurement_result_type_id	int		
stage_data_id	int		
value	varchar(255)		

description	text	null	
deleted	boolean		
created	timestamp		
edited	timestamp		

2.9. Table Copy_of_measurement

2.9.1. Columns

Column name	Type	Properties	Description
id	serial	PK	
measuring_type_id	int		
measuring_unit_id	int		
stage_id	int		
value	varchar(255)		
description	text	null	
deleted	boolean		
created	timestamp		
edited	timestamp		

2.10. Table Copy_of_measuring_unit

2.10.1. Columns

Column name	Type	Properties	Description
id	serial	PK	
unit	varchar(125)		
deleted	boolean		
created	timestamp		
edited	timestamp		

2.11. Table Copy_of_measurement_type

2.11.1. Columns

Column name	Type	Properties	Description
id	serial	PK	

type	text		
deleted	boolean		
created	timestamp		
edited	timestamp		

3. References

3.1. Reference Copy_of_image_stage

stage	0..*	stage_image
id	<->	stage_id

3.2. Reference stage_data_stage

stage	0..*	stage_data
id	<->	stage_id

3.3. Reference stage_data_stage_data_category

stage_data_type	0..*	stage_data
id	<->	stage_data_type_id

3.4. Reference measuring_result_measuring_unit

measurement_unit	0..*	measurement_result
id	<->	measurement_unit_id

3.5. Reference measuring_result_measuring_result_type

measurement_result_type	0..*	measurement_result
id	<->	measurement_result_type_id

3.6. Reference Copy_of_measuring_measuring_type

Copy_of_measurement_type	0..*	Copy_of_measurement
id	<->	measuring_type_id

3.7. Reference measurement_measuring_unit

Copy_of_measuring_unit	0..*	Copy_of_measurement
id	<->	measuring_unit_id

3.8. Reference measurement_result_stage_data

stage_data	0..*	measurement_result
id	<->	stage_data_id

4. Areas

4.1. AUTH subject area

4.1.1. Tables

- user

4.1.2. References

- Copy_of_image_stage
- stage_data_stage
- stage_data_stage_data_category
- measuring_result_measuring_unit
- measuring_result_measuring_result_type
- Copy_of_measuring_measuring_type
- measurement_measuring_unit
- measurement_result_stage_data

5. Notes

Modelleerimisel lähtusin: https://docs.google.com/document/d/1Zbnc-Wsd1daYIIT5vvo6rGk3f3-5FZHf9SZz-uGWuYY/edit?pli=1

Seda "ankeeti" silmas pidades proovisin kuidagi loogiliselt kokku panna.
Igal tabelil kommentaarid küljes.
Ärme kohe tuimalt muutma hakka, arutame asjad läbi