Database model documentation

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1. Model details

Model name:

Database_TFG

Version:

2.3

Database engine:

PostgreSQL

Description:

2. Tables

2.1. Table FUNCTION

2.1.1. Columns

Column name	Type	Properties	Description
idFunction	serial	PK	
code	varchar(15)		
description	text		
aspect	varchar(100)	null	

2.1.2. Alternate keys

Key name	Columns	Description
FUNCTION_codeGO_uk	code	

2.2. Table PROTEIN

2.2.1. Columns

Column name	Type	Properties	Description
idProtein	serial	PK	
code	varchar(15)		
name	varchar(100)		
gene	varchar(50)	null	
location	text	null	
idSpecies	serial		

2.2.2. Alternate keys

Key name	Columns	Description
PROTEIN_code_uk	code	

2.2.3. Indexes

Index name	Columns	Description
protein_idSpecies_index	idSpecies (ASC)	

2.3. Table R_PROTEIN_FUNCTION

2.3.1. Columns

Column name	Type	Properties	Description
idProtein	integer	PK	
idFunction	integer	PK	

2.4. Table R_PROTEIN_MODELVPF

2.4.1. Columns

Column name	Type	Properties	Description
idProtein	serial	PK	
idModel	serial	PK	
score	float	null	
e_value	float	null	

2.5. Table INTERACTION

2.5.1. Columns

Column name	Type	Properties	Description
idProteinV	serial	PK	
idProteinH	serial	PK	

2.6. Table SPECIES

2.6.1. Columns

Column name	Type	Properties	Description
idSpecies	serial	PK	
name	varchar(100)		
taxonomy	varchar(100)		
isVirus	boolean		

2.6.2. Alternate keys

Key name	Columns	Description
SPECIES_name_uk	name	

2.7. Table VPFMODEL

2.7.1. Columns

Column name	Type	Properties	Description
idModel	serial	PK	
code	varchar(100)		
path	varchar(500)		

2.7.2. Alternate keys

Key name	Columns	Description
VPFMODEL_code_uk	code	

3. References

3.1. Reference FK_PROTEIN_SPECIES

SPECIES	0..*	PROTEIN
idSpecies	<->	idSpecies

3.2. Reference FK_R_PROTEIN_FUNCTION_FUNCTION

FUNCTION	0..*	R_PROTEIN_FUNCTION
idFunction	<->	idFunction

3.3. Reference FK_R_PROTEIN_FUNCTION_PROTEIN

PROTEIN	0..*	R_PROTEIN_FUNCTION
idProtein	<->	idProtein

3.4. Reference FK_R_PROTEIN_MODELVPF_PROTEIN

PROTEIN	0..*	R_PROTEIN_MODELVPF
idProtein	<->	idProtein

3.5. Reference FK_INTERACTION_PROTEINH

PROTEIN	0..*	INTERACTION
idProtein	<->	idProteinH

3.6. Reference FK_INTERACTION_PROTEINV

PROTEIN	0..*	INTERACTION
idProtein	<->	idProteinV

3.7. Reference R_PROTEIN_MODELVPF_VPFMODEL

VPFMODEL	0..*	R_PROTEIN_MODELVPF
idModel	<->	idModel