Documentation ZOO

Data Dictionary

22.01.2021

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- ⚡ Active trigger
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- ⊰ User-defined many to many relation
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- ⊡ Used by dependency
- ⊡ User-defined used by dependency

Documentation ZOO

1. Tables

1.1. Table: animals

Columns

		Name	Data type	Description / Attributes
🗐	🔑	id	int	**Identity / Auto increment**
🗐		name	varchar(45)	
🗐		birthdate	date	
🗐		lastfeed	datetime	
🗐		remark	varchar(45)	**Nullable**
🗐		species_id	int	**References**: species
🗐		sex_id	int	
🗐		pens_id	int	**References**: pens
🗐		mother_id	int	il s'agit de référencer un autre animal présent dans le zoo, qui est la mère de la bête dont nous consultons les informations. Une absence de données ne signifie pas son inexistance, simplement que cet individu ne fait pas parti du zoo. **Nullable** **References**: animals
🗐		father_id	int	**Nullable** **References**: animals

Links to

	Table	Join	Title / Name / Description
➤—	animals	**animals**mother_id = animalsid	FK_animal_mother
➤—	animals	**animals**father_id = animalsid	FK_animal_father
➤—	pens	**animals**pens_id = pensid	FK_animals_pens
➤—	species	**animals**species_id = speciesid	FK_animals_species

Linked from

	Table	Join	Title / Name / Description
—<	animals	**animals**id = animalsmother_id	FK_animal_mother
—<	animals	**animals**id = animalsfather_id	FK_animal_father
—<	animals_follows_care	**animals**id = animals_follows_careanimals_id	FK_animalsFollowsCare_animals
—<	animals_has_states	**animals**id = animals_has_statesanimals_id	FK_animals_has_states_animal

Unique keys

		Name / Description
🔑	id	PK__animals__3213E83FB61CC408

1.2. Table: animals_follows_care

Cette table permet de regrouper une action regroupant au maximum quatre éléments : un animal, un soigneur, un soin particulier et du stock. Un animal peut suivre aucun ou plusieurs soins et un soin peut être suivi par aucun ou plusieurs animaux. Ce soin sera effectué par un ou plusieurs employé(s). Pour cela, ils vont utiliser aucun ou plusieurs éléments des stocks.

Columns

		Name	Data type	Description / Attributes
▤	🔑	id	int	**Identity / Auto increment**
▤	🔑	animals_id	int	**References**: animals
▤	🔑	care_id	int	**References**: care
▤		employees_id	int	**Nullable** **References**: employees
▤		stocks_id	int	**Nullable** **References**: stocks
▤		stockQuantity	float	La quantité de stock représente la quantité de stock qui est extraite de la base de données lors de manipulations avec un animal. **Nullable**
▤		date	date	

Links to

	Table	Join	Title / Name / Description
⤐	animals	**animals_follows_care**animals_id = animalsid	FK_animalsFollowsCare_animals
⤐	care	**animals_follows_care**care_id = careid	FK_animals_follows_care_care
⤐	employees	**animals_follows_care**employees_id = employeesid	FK_animals_follows_care_employees
⤐	stocks	**animals_follows_care**stocks_id = stocksid	FK_animals_follows_care_stocks

Unique keys

		Name / Description
🔑	id	PK__animals__3213E83F730FFE19
🔑	care_id, animals_id	UniqueAnimalCare

1.3. Table: animals_has_states

Columns

		Name	Data type	Description / Attributes
▤	🔑	id	int	**Identity / Auto increment**
▤	🔑	animals_id	int	**References**: animals
▤	🔑	states_id	int	**References**: states

Links to

	Table	Join	Title / Name / Description
⤐	animals	**animals_has_states**animals_id = animalsid	FK_animals_has_states_animal

	Table	Join	Title / Name / Description
⇥	states	**animals_has_states**states_id = statesid	FK_animals_has_states_states

Unique keys

		Name / Description
🔑	id	PK__animals___3213E83F4146F95B
🔑	animals_id, states_id	UniqueAnimalState

1.4. Table: care

Columns

		Name	Data type	Description / Attributes
▤	🔑	id	int	**Identity / Auto increment**
▤	🔑	name	varchar(45)	

Linked from

	Table	Join	Title / Name / Description
⤙	animals_follows_care	**care**id = animals_follows_carecare_id	FK_animals_follows_care_care

Unique keys

		Name / Description
🔑	id	PK__care__3213E83F436FA236
🔑	name	UQ__care__72E12F1B5E9A1DF4

1.5. Table: diets

Columns

		Name	Data type	Description / Attributes
▤	🔑	id	int	**Identity / Auto increment**
▤	🔑	name	varchar(45)	

Linked from

	Table	Join	Title / Name / Description
⤙	species	**diets**id = speciesdiets_id	FK_species_diet

Unique keys

		Name / Description
🔑	id	PK__diets__3213E83F819918E8
🔑	name	UQ__diets__72E12F1B6E59192B

1.6. Table: employees

Columns

		Name	Data type	Description / Attributes
▤	🔑	id	int	**Identity / Auto increment**

		Name	Data type	Description / Attributes
▤	🔑	contractnumber	varchar(45)	on parle ici du numéro de contrat de l'employé. Celui-ci est unique et permet de retrouver la personne facilement lors de recherches spécifiques sur les employés.
▤	🔑	acronym	varchar(4)	Un acronyme sert aux employés pour signifier aux autres qui a accompli quoi. Il remplit globalement la même fonctionnalité que le numéro de contrat, mais est beaucoup plus compréhensible pour un être humain. Il est créé grâce à la première lettre du prénom, la première lettre du nom et la dernière lettre du nom.
▤	🔑	lastname	varchar(45)	
▤	🔑	firstname	varchar(45)	
▤		birthdate	date	
▤		sex_id	int	**References**: sex

Links to

	Table	Join	Title / Name / Description
⤙	sex	**employees**sex_id = sexid	FK_employees_sex

Linked from

	Table	Join	Title / Name / Description
⤚	animals_follows_care	**employees**id = animals_follows_careemployees_id	FK_animals_follows_care_employees
⤚	employees_supplies_pens	**employees**id = employees_supplies_pensemployees_id	FK_employees_supplies_pens_employees

Unique keys

		Name / Description
🔑	id	PK__employee__3213E83FF08CA2B5
🔑	contractnumber, lastname, firstname	UniqueEmployee
🔑	contractnumber	UQ__employee__57074336456A1977
🔑	acronym	UQ__employee__8172A531DB64F0F4

1.7. Table: employees_supplies_pens

Cette table relie entre elles 3 tables, la table employés ("employees"), la table animaux ("animals") et la table stock ("stocks"). Elle permet de montrer les éléments suivants : un ou plusieurs employés ravitaille un ou plusieurs enclos. Pour ce faire, il(s) utilise(nt) aucun ou plusieurs éléments présents dans les stocks.

Columns

		Name	Data type	Description / Attributes
▤	🔑	id	int	**Identity / Auto increment**
▤		employees_id	int	**Nullable** **References**: employees
▤		pens_id	int	**References**: pens
▤		stocks_id	int	**Nullable** **References**: stocks
▤		stockQuantity	float	**Nullable**

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		Name	Data type	Description / Attributes
▤		date	date	

Links to

	Table	Join	Title / Name / Description
⤙	employees	**employees_supplies_pens**employees_id = employeesid	FK_employees_supplies_pens_employees
⤙	pens	**employees_supplies_pens**pens_id = pensid	FK_employees_supplies_pens_pens
⤙	stocks	**employees_supplies_pens**stocks_id = stocksid	FK_employees_supplies_pens_stocks

Unique keys

		Name / Description
🔑	id	PK__employee__3213E83F749367BD

1.8. Table: pens

Columns

		Name	Data type	Description / Attributes
▤	🔑	id	int	**Identity / Auto increment**
▤	🔑	name	varchar(45)	
▤		constructionDate	date	
▤		lastwork	date	
▤		livedIn	bit	
▤		size	float	
▤		sectors_id	int	**References**: sectors
▤		types_id	int	**References**: types

Links to

	Table	Join	Title / Name / Description
⤙	sectors	**pens**sectors_id = sectorsid	FK_pens_sectors
⤙	types	**pens**types_id = typesid	FK_pens_types

Linked from

	Table	Join	Title / Name / Description
⤚	animals	**pens**id = animalspens_id	FK_animals_pens
⤚	employees_supplies_pens	**pens**id = employees_supplies_penspens_id	FK_employees_supplies_pens_pens

Unique keys

		Name / Description
🔑	id	PK__pens__3213E83F22527826
🔑	name	UQ__pens__72E12F1BE8CA35BA

1.9. Table: sectors

Columns

		Name	Data type	Description / Attributes
🗎	🔑	id	int	**Identity / Auto increment**
🗎	🔑	name	varchar(45)	

Linked from

Table	Join	Title / Name / Description
pens	**sectors**id = pens**sectors_id**	FK_pens_sectors
stocks	**sectors**id = stocks**sectors_id**	FK_stocks_sectors

Unique keys

		Name / Description
🔑	id	PK__sectors__3213E83F4D261840
🔑	name	UQ__sectors__72E12F1B05BE779B

1.10. Table: sex

Columns

		Name	Data type	Description / Attributes
🗎	🔑	id	int	**Identity / Auto increment**
🗎	🔑	name	varchar(16)	

Linked from

Table	Join	Title / Name / Description
employees	**sex**id = employees**sex_id**	FK_employees_sex

Unique keys

		Name / Description
🔑	id	PK__sex__3213E83F79C19C45
🔑	name	UQ__sex__72E12F1B8279F0F1

1.11. Table: species

Columns

		Name	Data type	Description / Attributes
🗎	🔑	id	int	**Identity / Auto increment**
🗎	🔑	name	varchar(45)	
🗎		diets_id	int	**References**: diets
🗎		status_id	int	**References**: status

Links to

	Table	Join	Title / Name / Description
⤐	diets	**species**diets_id = dietsid	FK_species_diet
⤐	status	**species**status_id = statusid	FK_species_status

Linked from

	Table	Join	Title / Name / Description
⤘	animals	**species**id = animalsspecies_id	FK_animals_species

Unique keys

		Name / Description
🔑	id	PK__species__3213E83F2BF42A67
🔑	name	UQ__species__72E12F1B8DDE278C

1.12.   Table: states

Columns

		Name	Data type	Description / Attributes
▤	🔑	id	int	**Identity / Auto increment**
▤	🔑	name	varchar(45)	

Linked from

	Table	Join	Title / Name / Description
⤘	animals_has_states	**states**id = animals_has_statesstates_id	FK_animals_has_states_states

Unique keys

		Name / Description
🔑	id	PK__states__3213E83FD72D6EFD
🔑	name	UQ__states__72E12F1B96174475

1.13.   Table: status

Columns

		Name	Data type	Description / Attributes
▤	🔑	id	int	**Identity / Auto increment**
▤	🔑	name	varchar(45)	
▤	🔑	code	varchar(8)	

Linked from

	Table	Join	Title / Name / Description
⤘	species	**status**id = speciesstatus_id	FK_species_status

Unique keys

		Name / Description
🔑	id	PK__status__3213E83F9273E219
🔑	code	UQ__status__357D4CF93019274A
🔑	name	UQ__status__72E12F1BBA627C68

1.14.   Table: stocks

Columns

		Name	Data type	Description / Attributes
▤	🔑	id	int	**Identity / Auto increment**
▤	🔑	reference	varchar(45)	
▤		name	varchar(45)	
▤	🔑	provider	varchar(45)	
▤		priceperunit	float	
▤		uses	varchar(45)	
▤		quantity	float	
▤		sectors_id	int	**References**: sectors

Links to

	Table	Join	Title / Name / Description
⤚	sectors	**stocks**sectors_id = sectorsid	FK_stocks_sectors

Linked from

	Table	Join	Title / Name / Description
⤙	animals_follows_care	**stocks**id = animals_follows_carestocks_id	FK_animals_follows_care_stocks
⤙	employees_supplies_pens	**stocks**id = employees_supplies_pensstocks_id	FK_employees_supplies_pens_stocks

Unique keys

		Name / Description
🔑	id	PK__stocks__3213E83FC3E5C3E4
🔑	reference, provider	UniqueProduct
🔑	reference	UQ__stocks__FD90DA994553406F

1.15.   Table: types

Columns

		Name	Data type	Description / Attributes
▤	🔑	id	int	**Identity / Auto increment**
▤	🔑	name	varchar(45)	

Linked from

	Table	Join	Title / Name / Description
—<	pens	**types**id = penstypes_id	FK_pens_types

Unique keys

		Name / Description
🔑	id	PK__types__3213E83F0544B12C
🔑	name	UQ__types__72E12F1BDA5E5C97