

Database model documentation

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1. Model details

Model name:

term_project_course_catalog_justin's_edit

Version:

2.4

Database engine:

PostgreSQL

Description:

2. Tables

2.1. Table departments

2.1.1. Columns

Column name	Type	Properties	Description
name	varchar(50)	PK	
abbreviation	varchar(4)		

2.1.2. Alternate keys

Key name	Columns	Description
departments_uk_01	abbreviation	

2.2. Table majors

2.2.1. Columns

Column name	Type	Properties	Description
name	varchar(30)	PK	
departments_name	varchar(50)		
description	varchar(100)		

2.3. Table courses

2.3.1. Columns

Column name	Type	Properties	Description
name	varchar(30)	PK	
departments_abbr	varchar(50)		
number	int		
description	varchar(100)		
units	int		

2.3.2. Alternate keys

Key name	Columns	Description
courses_uk_01	departments_abbr, number	

2.4. Table course_requirements

2.4.1. Columns

Column name	Type	Properties	Description
requirement_name	varchar(30)	PK, null	
course_name	varchar(30)	PK	

2.5. Table choices

2.5.1. Columns

Column name	Type	Properties	Description
name	varchar(30)	PK	

2.6. Table mandatories

2.6.1. Columns

Column name	Type	Properties	Description
name	varchar(30)	PK	

2.7. Table totals

2.7.1. Columns

Column name	Type	Properties	Description
name	varchar(30)	PK	

2.8. Table requirements

2.8.1. Columns

Column name	Type	Properties	Description
name	varchar(30)	PK	
majors_name	varchar(30)		
part_of	varchar(30)	null	
description	varchar(100)		
credits	int		

3. References

3.1. Reference courses_departments

departments	1..*	courses
abbreviation	<->	departments_abbr

3.2. Reference majors_departments

departments	1..*	majors
name	<->	departments_name

3.3. Reference course_requirements_courses

courses	1..*	course_requirements
name	<->	course_name

3.4. Reference requirements_requirements

requirements	0..*	requirements
name	<->	part_of

3.5. Reference totals_requirements

requirements	0..1	totals
name	<->	name

3.6. Reference mandatories_requirements

requirements	0..1	mandatories
name	<->	name

3.7. Reference choices_requirements

requirements	0..1	choices
name	<->	name

3.8. Reference course_requirements_requirements

requirements	0..*	course_requirements
name	<->	requirement_name

3.9. Reference requirements_majors

majors	1..*	requirements
name	<->	majors_name