

Data Modeling Report

Relational Diagram

Version 1.0 • Mandatory



Date/Time Generated:

09/05/2018 05:29:33 p.m.

Author:

TOSHIBA

EA Repository : D:\d_carpet\EAProjects\SPFG_v2\SPFG_cd\Documentation\SPGF.eap

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Relational Diagram

Package in package 'SPFG'

Relational Diagram
Version 1.0 Phase 1.0 Mandatory
Dave created on 18/04/2018. Last modified 19/04/2018
Alias

RelationalDiagram diagram

Data Modeling diagram in package 'Relational Diagram'

A basic structure in the database system.

RelationalDiagram
Version 1.0
Dave created on 18/04/2018. Last modified 09/05/2018

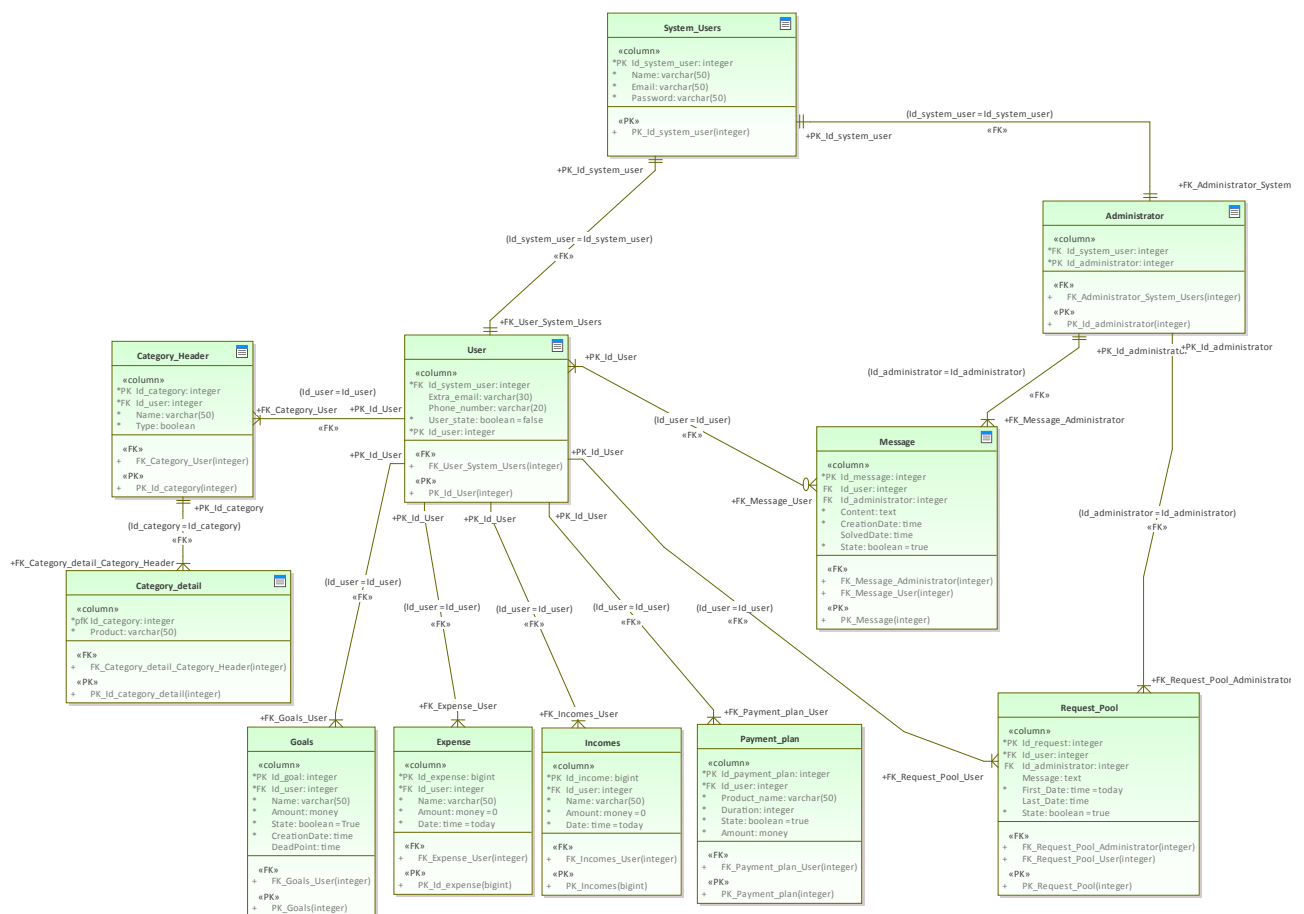


Figure 1: RelationalDiagram

System_Users





Database table in package 'Relational Diagram'


System_Users

Version 1.0 Phase 1.0 Mandatory

Dave created on 18/04/2018. Last modified 18/04/2018

DBMS PostgreSQL

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 Id_system_user	integer	True	Properties: AutoNum = True Increment = 999999 property = AutoNum=True;Increment=999999; SequenceName = Id_system_user_sequence
 Name	varchar(50)	True	
 Email	varchar(50)	True	
 Password	varchar(50)	True	

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_Id_system_user	Id_system_user	

User






Database table in package 'Relational Diagram'

User


Version 1.0 Phase 1.0 Proposed


Dave created on 18/04/2018. Last modified 18/04/2018

DBMS PostgreSQL

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 Id_system_user	integer	True	
 Extra_email	varchar(30)	False	
 Phone_number	varchar(20)	False	
 User_state	boolean	True	Initial value: false
 Id_user	integer	True	Properties:

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
			AutoNum = True Increment = 999999 property = AutoNum=True;Increment=999999; SequenceName = Id_user_sequence



PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_Id_User	Id_user	


FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_User_System_Users	Id_system_user	System_Users(Id_system_user)


Administrator

Database table in package 'Relational Diagram'

Administrator
Version 1.0 Phase 1.0 Proposed
Dave created on 18/04/2018. Last modified 18/04/2018
DBMS PostgreSQL

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 Id_system_user	integer	True	
 Id_administrator	integer	True	Properties: AutoNum = True Increment = 100 property = AutoNum=True;Increment=100; SequenceName = Id_administrator_sequence





PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_Id_administrator	Id_administrator	


FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_Administrator_System_Users	Id_system_user	System_Users(Id_system_user)


Category_Header

Database table in package 'Relational Diagram'

Category_Header
Version 1.0 Phase 1.0 Mandatory
Dave created on 18/04/2018. Last modified 18/04/2018
DBMS PostgreSQL

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 Id_category	integer	True	Properties: AutoNum = True Increment = 999999 property = AutoNum=True;Increment=999999; SequenceName = Id_category_sequence
 Id_user	integer	True	
 Name	varchar(50)	True	
 Type	boolean	True	



PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_Id_category	Id_category	


FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_Category_User	Id_user	User(Id_user)


Category_detail

Database table in package 'Relational Diagram'

Category_detail
Version 1.0 Phase 1.0 Mandatory
Dave created on 18/04/2018. Last modified 18/04/2018
DBMS PostgreSQL

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 Id_category	integer	True	
 Product	varchar(50)	True	








PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_Id_category_detail	Id_category	


FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_Category_detail_Category_Header	Id_category	Category_Header(Id_category)

Message


Database table in package 'Relational Diagram'

Message
 Version 1.0 Phase 1.0 Proposed
 Dave created on 09/05/2018. Last modified 09/05/2018
 DBMS PostgreSQL

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 Id_message	integer	True	Properties: AutoNum = True Increment = 9999999 property = AutoNum=True;Increment=9999999; SequenceName = Id_message_sequence
 Id_user	integer	False	
 Id_administrator	integer	False	
 Content	text	True	
 CreationDate	time	True	
 SolvedDate	time	False	
 State	boolean	True	Initial value: true

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_Message	Id_message	

FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_Message_Administrator	Id_administrator	Administrator(Id_administrator)

)
 FK_Message_User	Id_user	User(Id_user)

Goals








Database table in package 'Relational Diagram'


Goals


Version 1.0 Phase 1.0 Mandatory

Dave created on 19/04/2018. Last modified 19/04/2018

DBMS PostgreSQL

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 Id_goal	integer	True	Properties: AutoNum = True Increment = 999999 property = AutoNum=True;Increment=999999; SequenceName = Id_goal_sequence
 Id_user	integer	True	
 Name	varchar(50)	True	
 Amount	money	True	
 State	boolean	True	Initial value: True
 CreationDate	time	True	
 DeadPoint	time	False	






PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_Goals	Id_goal	


FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_Goals_User	Id_user	User(Id_user)


Expense

Database table in package 'Relational Diagram'

Expense
Version 1.0 Phase 1.0 Mandatory
Dave created on 18/04/2018. Last modified 18/04/2018
DBMS PostgreSQL

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 Id_expense	bigint	True	Properties: AutoNum = True Increment = 999999 property = AutoNum=True;Increment=999999; SequenceName = Id_expense_sequence
 Id_user	integer	True	
 Name	varchar(50)	True	
 Amount	money	True	Initial value: 0
 Date	time	True	Initial value: today


PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_Id_expense	Id_expense	





FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_Expense_User	Id_user	User(Id_user)


Incomes


Database table in package 'Relational Diagram'

Incomes
Version 1.0 Phase 1.0 Mandatory
Dave created on 18/04/2018. Last modified 18/04/2018
DBMS PostgreSQL

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 Id_income	bigint	True	Properties: AutoNum = True Increment = 999999

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
			property = AutoNum=True;Increment=999999; SequenceName = Id_income_sequence
 Id_user	integer	True	
 Name	varchar(50)	True	
 Amount	money	True	Initial value: 0
 Date	time	True	Initial value: today

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_Incomes	Id_income	




FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_Incomes_User	Id_user	User(Id_user)




Payment_plan


Database table in package 'Relational Diagram'


A payment plan define an standard rule to create an income or expense. Each payment plan is ruled by a sort of special dates that allow system to add automatically those register.

Payment_plan
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DBMS PostgreSQL

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 Id_payment_plan	integer	True	Properties: AutoNum = True Increment = 999999 property = AutoNum=True;Increment=999999; SequenceName = Id_payment_plan_sequence
 Id_user	integer	True	
 Product_name	varchar(50)	True	

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 Duration	integer	True	True for Expenses. False for Incomes.
 State	boolean	True	Initial value: true True for Active False for Inactive
 Amount	money	True	







PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_Payment_plan	Id_payment_plan	


FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_Payment_plan_User	Id_user	User(Id_user)


Request_Pool



Database table in package 'Relational Diagram'

Request_Pool
Version 1.0 Phase 1.0 Mandatory
Dave created on 19/04/2018. Last modified 19/04/2018
DBMS PostgreSQL

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 Id_request	integer	True	Properties: AutoNum = True Increment = 999999 property = AutoNum=True;Increment=999999; SequenceName = Id_request_sequence
 Id_user	integer	True	
 Id_administrator	integer	False	
 Message	text	False	
 First_Date	time	True	Initial value: today
 Last_Date	time	False	

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 State	boolean	True	Initial value: true True for Unsolved request. False for Solved request.

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_Request_Pool	Id_request	

FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_Request_Pool_User	Id_user	User(Id_user)
 FK_Request_Pool_Administrator	Id_administrator	Administrator(Id_administrator)