

# Data Modeling Report

## Relational Diagram

Version 1.0 • Mandatory



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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

## Relational diagram

Data Modeling diagram in package 'Relational Diagram'

A basic structure in the database system.

Relational  
Version 1.0  
Dave created on 18/04/2018. Last modified 19/04/2018

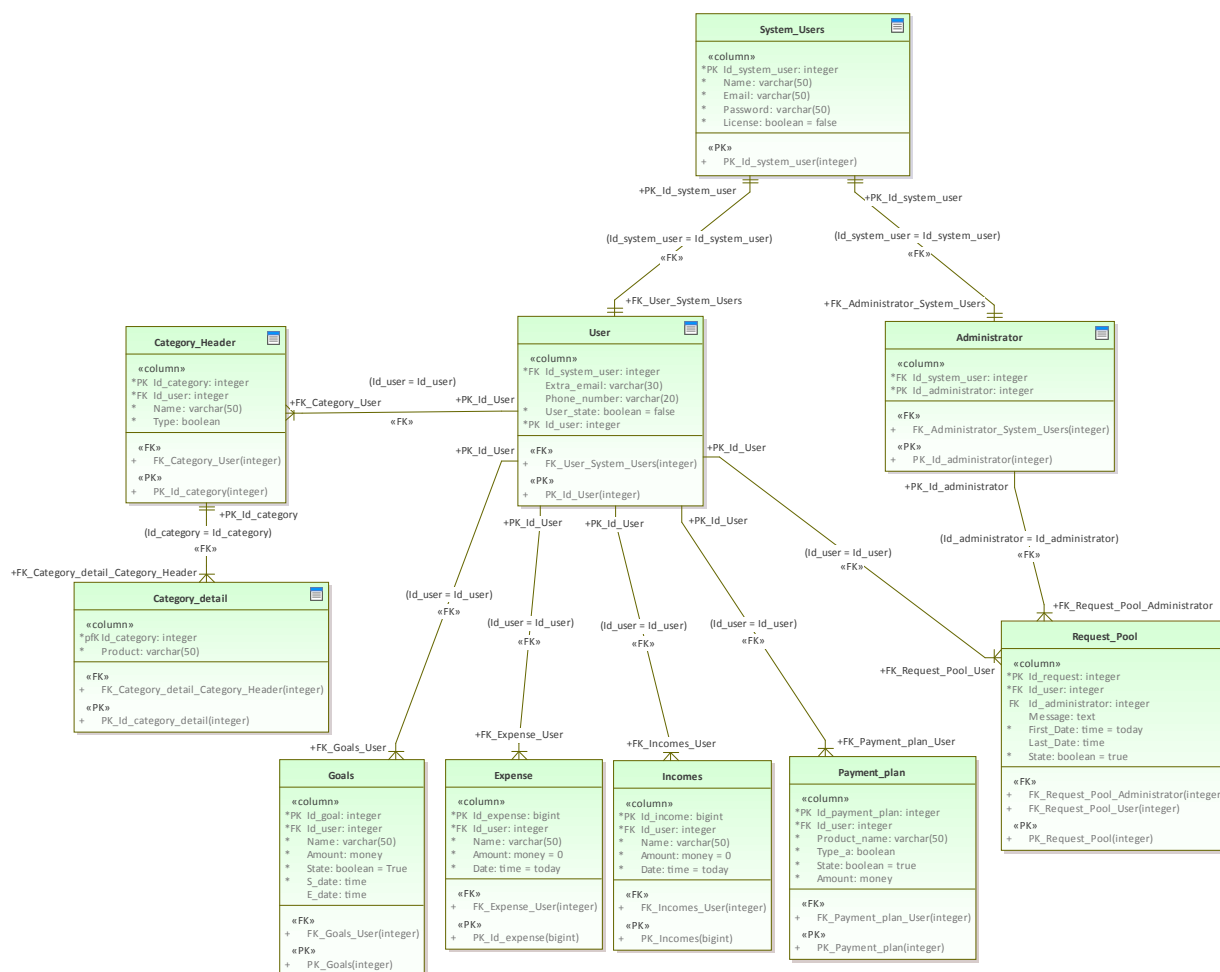








Figure 1: Relational

## 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	
 License	boolean	True	Initial value: false

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_Id_system_user	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;

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
			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)

## 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: 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)


## 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	

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 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)

## 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
 S_date	time	True	
 E_date	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 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  
Version 1.0 Phase 1.0 Mandatory  
Dave created on 18/04/2018. Last modified 19/04/2018  
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

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 Id_user	integer	True	
 Product_name	varchar(50)	True	
 Type_a	boolean	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	

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 Message	text	False	
 First_Date	time	True	Initial value: today
 Last_Date	time	False	
 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 )