

Report

IREMAR
01/06/2021

Table of Contents

1 Specifications..... 3

2 Model information..... 4

 2.1 Card of model DER..... 4

3 PDM Diagrams..... 5

 3.1 Model level diagrams..... 5

 3.1.1 Diagram DER..... 5

4 Physical diagrams objects..... 6

 4.1 References..... 6

 4.1.1 Model level references..... 6

 4.2 Tables..... 10

 4.2.1 Model level tables..... 10

1 Specifications

Include specifications here...

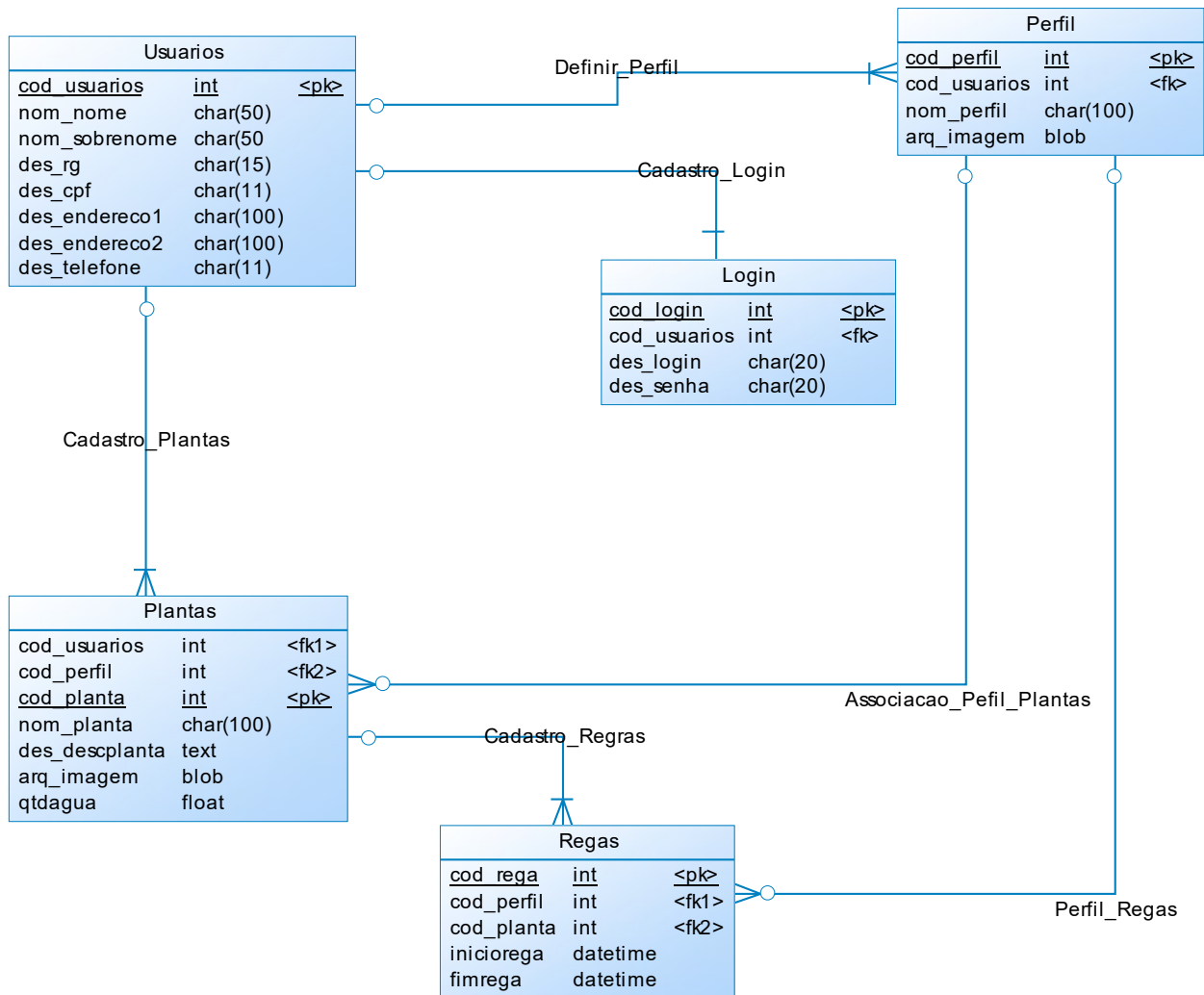
2 Model information**2.1 Card of model DER**

<i>Name</i>	DER
<i>Code</i>	PHYSICALDATAMODEL_1
<i>Comment</i>	
<i>DBMS</i>	MySQL 5.0
<i>Database</i>	<None>

3 PDM Diagrams

3.1 Model level diagrams

3.1.1 Diagram DER



4 Physical diagrams objects**4.1 References****4.1.1 Model level references****4.1.1.1 List of references**

<i>Name</i>	<i>Code</i>	<i>Parent Table</i>	<i>Child Table</i>
Associacao_Pefil_Plantas	Associacao_Pefil_Plantas	Perfil	Plantas
Cadastro_Login	Cadastro_Login	Usuarios	Login
Cadastro_Plantas	Cadastro_Plantas	Usuarios	Plantas
Cadastro_Regras	Cadastro_Regras	Plantas	Regas
Definir_Perfil	Definir_Perfil	Usuarios	Perfil
Perfil_Regas	Perfil_Regas	Perfil	Regas

4.1.1.2 Reference Associacao Pefil Plantas**4.1.1.2.1 Card of reference Associacao Pefil Plantas**

<i>Name</i>	Associacao_Pefil_Plantas
<i>Code</i>	Associacao_Pefil_Plantas
<i>Parent Table</i>	Perfil
<i>Child Table</i>	Plantas

4.1.1.2.2 Code preview of the reference Associacao Pefil Plantas

alter table Plantas add constraint FK_Associacao_Pefil_Plantas foreign key (cod_perfil)
references Perfil (cod_perfil) on delete restrict on update restrict;

4.1.1.2.3 List of diagrams containing the reference Associacao Pefil Plantas

<i>Name</i>	<i>Code</i>
DER	PHYSICALDIAGRAM_1

4.1.1.2.4 List of reference joins of the reference Associacao Pefil Plantas

<i>Parent Table Column</i>	<i>Child Table Column</i>
cod_perfil	cod_perfil

4.1.1.2.5 List of extended attributes of the reference Associacao Pefil Plantas

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
ReferenceMatch	ReferenceMatchType		MySQL 5.0

4.1.1.3 Reference Cadastro Login**4.1.1.3.1 Card of reference Cadastro Login**

<i>Name</i>	Cadastro_Login
<i>Code</i>	Cadastro_Login
<i>Parent Table</i>	Usuarios
<i>Child Table</i>	Login

4.1.1.3.2 Code preview of the reference Cadastro Login

alter table Login add constraint FK_Cadastro_Login foreign key (cod_usuarios)
references Usuarios (cod_usuarios) on delete restrict on update restrict;

4.1.1.3.3 List of diagrams containing the reference Cadastro Login

<i>Name</i>	<i>Code</i>
DER	PHYSICALDIAGRAM_1

4.1.1.3.4 List of reference joins of the reference Cadastro Login

<i>Parent Table Column</i>	<i>Child Table Column</i>
cod_usuarios	cod_usuarios

4.1.1.3.5 List of extended attributes of the reference Cadastro Login

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
ReferenceMatch	ReferenceMatchType		MySQL 5.0

4.1.1.4 Reference Cadastro Plantas**4.1.1.4.1 Card of reference Cadastro Plantas**

<i>Name</i>	Cadastro_Plantas
<i>Code</i>	Cadastro_Plantas
<i>Parent Table</i>	Usuarios
<i>Child Table</i>	Plantas

4.1.1.4.2 Code preview of the reference Cadastro Plantas

```
alter table Plantas add constraint FK_Cadastro_Plantas foreign key (cod_usuarios)
references Usuarios (cod_usuarios) on delete restrict on update restrict;
```

4.1.1.4.3 List of diagrams containing the reference Cadastro Plantas

<i>Name</i>	<i>Code</i>
DER	PHYSICALDIAGRAM_1

4.1.1.4.4 List of reference joins of the reference Cadastro Plantas

<i>Parent Table Column</i>	<i>Child Table Column</i>
cod_usuarios	cod_usuarios

4.1.1.4.5 List of extended attributes of the reference Cadastro Plantas

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
ReferenceMatch	ReferenceMatchType		MySQL 5.0

4.1.1.5 Reference Cadastro Regras**4.1.1.5.1 Card of reference Cadastro Regras**

<i>Name</i>	Cadastro_Regras
<i>Code</i>	Cadastro_Regras
<i>Parent Table</i>	Plantas
<i>Child Table</i>	Regas

4.1.1.5.2 Code preview of the reference Cadastro Regras

```
alter table Regas add constraint FK_Cadastro_Regras foreign key (cod_planta)
references Plantas (cod_planta) on delete restrict on update restrict;
```

Name	Code
DER	PHYSICALDIAGRAM_1

4.1.1.5.4 List of reference joins of the reference Cadastro Regras

Parent Table Column	Child Table Column
cod_planta	cod_planta

4.1.1.5.5 List of extended attributes of the reference Cadastro Regras

Name	Data Type	Value	Target Name
ReferenceMatch	ReferenceMatchType		MySQL 5.0

4.1.1.6 Reference Definir Perfil**4.1.1.6.1 Card of reference Definir Perfil**

Name	Definir_Perfil
Code	Definir_Perfil
Parent Table	Usuarios
Child Table	Perfil

4.1.1.6.2 Code preview of the reference Definir Perfil

```
alter table Perfil add constraint FK_Definir_Perfil foreign key (cod_usuarios)
references Usuarios (cod_usuarios) on delete restrict on update restrict;
```

4.1.1.6.3 List of diagrams containing the reference Definir Perfil

Name	Code
DER	PHYSICALDIAGRAM_1

4.1.1.6.4 List of reference joins of the reference Definir Perfil

Parent Table Column	Child Table Column
cod_usuarios	cod_usuarios

4.1.1.6.5 List of extended attributes of the reference Definir Perfil

Name	Data Type	Value	Target Name
ReferenceMatch	ReferenceMatchType		MySQL 5.0

4.1.1.7 Reference Perfil Regas**4.1.1.7.1 Card of reference Perfil Regas**

Name	Perfil_Regas
Code	Perfil_Regas
Parent Table	Perfil
Child Table	Regas

4.1.1.7.2 Code preview of the reference Perfil Regas

```
alter table Regas add constraint FK_Perfil_Regas foreign key (cod_perfil)
references Perfil (cod_perfil) on delete restrict on update restrict;
```

4.1.1.7.3 List of diagrams containing the reference Perfil Regas

Name	Code
------	------

<i>Name</i>	<i>Code</i>
DER	PHYSICALDIAGRAM_1

4.1.1.7.4 List of reference joins of the reference Perfil Regas

<i>Parent Table Column</i>	<i>Child Table Column</i>
cod_perfil	cod_perfil

4.1.1.7.5 List of extended attributes of the reference Perfil Regas

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
ReferenceMatch	ReferenceMatchType		MySQL 5.0

4.2 Tables

4.2.1 Model level tables

4.2.1.1 List of tables

<i>Name</i>	<i>Code</i>
Login	Login
Perfil	Perfil
Plantas	Plantas
Regas	Regas
Usuarios	Usuarios

4.2.1.2 List of table columns

<i>Name</i>	<i>Code</i>
cod_usuarios	cod_usuarios
nom_nome	nom_nome
nom_sobrenome	nom_sobrenome
des_rg	des_rg
des_cpf	des_cpf
des_endereco1	des_endereco1
des_endereco2	des_endereco2
des_telefone	des_telefone
cod_usuarios	cod_usuarios
cod_perfil	cod_perfil
cod_planta	cod_planta
nom_planta	nom_planta
des_descplanta	des_descplanta
arq_imagem	arq_imagem
qtdagua	qtdagua
cod_perfil	cod_perfil
cod_usuarios	cod_usuarios
nom_perfil	nom_perfil
arq_imagem	arq_imagem
cod_login	cod_login
cod_usuarios	cod_usuarios
des_login	des_login
des_senha	des_senha
cod_rega	cod_rega
cod_perfil	cod_perfil
cod_planta	cod_planta
iniciorega	iniciorega
fimrega	fimrega

4.2.1.3 List of table keys

<i>Name</i>	<i>Code</i>	<i>Table</i>
Key_1	Key_1	Usuarios
Key_1	Key_1	Plantas
Key_1	Key_1	Perfil
Key_1	Key_1	Login

<i>Name</i>	<i>Code</i>	<i>Table</i>
Key_1	Key_1	Regas

4.2.1.4 Table Login**4.2.1.4.1 Card of table Login**

<i>Name</i>	Login
<i>Code</i>	Login
<i>DBMS</i>	MySQL 5.0

4.2.1.4.2 Check constraint name of the table Login

TK_Login

4.2.1.4.3 Server validation rule of the table Login

%RULES%

4.2.1.4.4 Code preview of the table Login

drop table if exists Login;

```
/*=====*/
/* Table: Login */
/*=====*/
```

create table Login

```
(
  cod_login      int not null,
  cod_usuarios   int,
  des_login      char(20),
  des_senha      char(20)
);
```

alter table Login

add primary key (cod_login);

alter table Login add constraint FK_Cadastro_Login foreign key (cod_usuarios)

references Usuarios (cod_usuarios) on delete restrict on update restrict;

4.2.1.4.5 List of diagrams containing the table Login

<i>Name</i>	<i>Code</i>
DER	PHYSICALDIAGRAM_1

4.2.1.4.6 List of outgoing references of the table Login

<i>Name</i>	<i>Code</i>	<i>Foreign Key Columns</i>
Cadastro_Login	Cadastro_Login	cod_usuarios

4.2.1.4.7 List of all dependencies of the table Login

<i>Name</i>	<i>Code</i>	<i>Class Name</i>
Cadastro_Login	Cadastro_Login	Reference

4.2.1.4.8 List of extended attributes of the table Login

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
Temporary	(Boolean)	false	MySQL 5.0

4.2.1.4.9 List of columns of the table Login

<i>Name</i>	<i>Code</i>
cod_login	cod_login

<i>Name</i>	<i>Code</i>
cod_usuarios	cod_usuarios
des_login	des_login
des_senha	des_senha

4.2.1.4.10 Column cod_login of the table Login

4.2.1.4.10.1 Card of the column cod_login of the table Login

<i>Name</i>	cod_login
<i>Code</i>	cod_login
<i>Data Type</i>	int
<i>Mandatory</i>	Yes

4.2.1.4.10.2 Check constraint name of the column cod_login of the table Login

CK_cod_login

4.2.1.4.10.3 Check of the column cod_login of the table Login

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.4.10.4 Server validation rule of the column cod_login of the table Login

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.4.10.5 List of all dependencies of the table column cod_login

<i>Name</i>	<i>Code</i>	<i>Class Name</i>
Key_1	Key_1	Key

4.2.1.4.10.6 List of extended attributes of the table column cod_login

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.4.11 Column cod_usuarios of the table Login

4.2.1.4.11.1 Card of the column cod_usuarios of the table Login

<i>Name</i>	cod_usuarios
<i>Code</i>	cod_usuarios
<i>Data Type</i>	int
<i>Mandatory</i>	No

4.2.1.4.11.2 Check constraint name of the column cod_usuarios of the table Login

CK_cod_usuarios

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.4.11.4 Server validation rule of the column cod_usuarios of the table Login

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.4.11.5 List of all dependencies of the table column cod_usuarios

<i>Name</i>	<i>Code</i>	<i>Class Name</i>
?	?	Reference Join

4.2.1.4.11.6 List of extended attributes of the table column cod_usuarios

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	Charsets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.4.12 Column des_login of the table Login**4.2.1.4.12.1 Card of the column des_login of the table Login**

<i>Name</i>	des_login
<i>Code</i>	des_login
<i>Data Type</i>	char(20)
<i>Mandatory</i>	No

4.2.1.4.12.2 Check constraint name of the column des_login of the table Login

CK_des_login

4.2.1.4.12.3 Check of the column des_login of the table Login

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.4.12.4 Server validation rule of the column des_login of the table Login

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.4.12.5 List of extended attributes of the table column des_login

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	Charsets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.4.13 Column des senha of the table Login

4.2.1.4.13.1 Card of the column des senha of the table Login

<i>Name</i>	des_senha
<i>Code</i>	des_senha
<i>Data Type</i>	char(20)
<i>Mandatory</i>	No

4.2.1.4.13.2 Check constraint name of the column des senha of the table Login

CK_des_senha

4.2.1.4.13.3 Check of the column des senha of the table Login

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.4.13.4 Server validation rule of the column des senha of the table Login

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.4.13.5 List of extended attributes of the table column des senha

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	Charsets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.4.14 List of keys of the table Login

<i>Name</i>	<i>Code</i>	<i>Primary</i>
Key_1	Key_1	X

4.2.1.4.15 Key Key 1 of the table Login

4.2.1.4.15.1 Card of the key Key 1 of the table Login

<i>Name</i>	Key_1
<i>Code</i>	Key_1
<i>Table</i>	Login

4.2.1.4.15.2 Code preview of the key Key 1 of the table Login

```
alter table Login
  add primary key (cod_login);
```

<i>Name</i>	<i>Code</i>
cod_login	cod_login

4.2.1.4.15.4 List of extended attributes of the table key Key_1

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
ExtUnique	(Boolean)	false	MySQL 5.0

4.2.1.5 Table Perfil

4.2.1.5.1 Card of table Perfil

<i>Name</i>	Perfil
<i>Code</i>	Perfil
<i>DBMS</i>	MySQL 5.0

4.2.1.5.2 Check constraint name of the table Perfil

TK_Perfil

4.2.1.5.3 Server validation rule of the table Perfil

%RULES%

4.2.1.5.4 Code preview of the table Perfil

drop table if exists Perfil;

```
/*=====*/
/* Table: Perfil */
/*=====*/
create table Perfil
(
  cod_perfil      int not null,
  cod_usuarios    int,
  nom_perfil      char(100),
  arq_imagem      blob
);
```

```
alter table Perfil
  add primary key (cod_perfil);
```

```
alter table Perfil add constraint FK_Definir_Perfil foreign key (cod_usuarios)
  references Usuarios (cod_usuarios) on delete restrict on update restrict;
```

```
alter table Plantas add constraint FK_Associacao_Pefil_Plantas foreign key (cod_perfil)
  references Perfil (cod_perfil) on delete restrict on update restrict;
```

```
alter table Regas add constraint FK_Perfil_Regas foreign key (cod_perfil)
  references Perfil (cod_perfil) on delete restrict on update restrict;
```

4.2.1.5.5 List of diagrams containing the table Perfil

<i>Name</i>	<i>Code</i>
DER	PHYSICALDIAGRAM_1

4.2.1.5.6 List of incoming references of the table Perfil

<i>Name</i>	<i>Code</i>
Associacao_Pefil_Plantas	Associacao_Pefil_Plantas
Perfil_Regas	Perfil_Regas

<i>Name</i>	<i>Code</i>	<i>Foreign Key Columns</i>
Definir_Perfil	Definir_Perfil	cod_usuarios

4.2.1.5.8 List of all dependencies of the table Perfil

<i>Name</i>	<i>Code</i>	<i>Class Name</i>
Associacao_Pefil_Plantas	Associacao_Pefil_Plantas	Reference
Definir_Perfil	Definir_Perfil	Reference
Perfil_Regas	Perfil_Regas	Reference

4.2.1.5.9 List of extended attributes of the table Perfil

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
Temporary	(Boolean)	false	MySQL 5.0

4.2.1.5.10 List of columns of the table Perfil

<i>Name</i>	<i>Code</i>
cod_perfil	cod_perfil
cod_usuarios	cod_usuarios
nom_perfil	nom_perfil
arq_imagem	arq_imagem

4.2.1.5.11 Column cod_perfil of the table Perfil**4.2.1.5.11.1 Card of the column cod_perfil of the table Perfil**

<i>Name</i>	cod_perfil
<i>Code</i>	cod_perfil
<i>Data Type</i>	int
<i>Mandatory</i>	Yes

4.2.1.5.11.2 Check constraint name of the column cod_perfil of the table Perfil

CK_cod_perfil

4.2.1.5.11.3 Check of the column cod_perfil of the table Perfil

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.5.11.4 Server validation rule of the column cod_perfil of the table Perfil

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.5.11.5 List of all dependencies of the table column cod_perfil

<i>Name</i>	<i>Code</i>	<i>Class Name</i>
?	?	Reference Join
?	?	Reference Join
Key_1	Key_1	Key

4.2.1.5.11.6 List of extended attributes of the table column cod_perfil

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
-------------	------------------	--------------	--------------------

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.5.12 Column cod_usuarios of the table Perfil

4.2.1.5.12.1 Card of the column cod_usuarios of the table Perfil

<i>Name</i>	cod_usuarios
<i>Code</i>	cod_usuarios
<i>Data Type</i>	int
<i>Mandatory</i>	No

4.2.1.5.12.2 Check constraint name of the column cod_usuarios of the table Perfil

CK_cod_usuarios

4.2.1.5.12.3 Check of the column cod_usuarios of the table Perfil

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.5.12.4 Server validation rule of the column cod_usuarios of the table Perfil

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.5.12.5 List of all dependencies of the table column cod_usuarios

<i>Name</i>	<i>Code</i>	<i>Class Name</i>
?	?	Reference Join

4.2.1.5.12.6 List of extended attributes of the table column cod_usuarios

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.5.13 Column nom_perfil of the table Perfil

4.2.1.5.13.1 Card of the column nom_perfil of the table Perfil

<i>Name</i>	nom_perfil
<i>Code</i>	nom_perfil
<i>Data Type</i>	char(100)
<i>Mandatory</i>	No

4.2.1.5.13.2 Check constraint name of the column nom_perfil of the table Perfil

CK_nom_perfil

4.2.1.5.13.3 Check of the column nom_perfil of the table Perfil

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

4.2.1.5.13.4 Server validation rule of the column nom_perfil of the table Perfil

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.5.13.5 List of extended attributes of the table column nom_perfil

Name	Data Type	Value	Target Name
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.5.14 Column arq_imagem of the table Perfil**4.2.1.5.14.1 Card of the column arq_imagem of the table Perfil**

Name	arq_imagem
Code	arq_imagem
Data Type	blob
Mandatory	No

4.2.1.5.14.2 Check constraint name of the column arq_imagem of the table Perfil

CK_arq_imagem

4.2.1.5.14.3 Check of the column arq_imagem of the table Perfil

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

4.2.1.5.14.4 Server validation rule of the column arq_imagem of the table Perfil

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.5.14.5 List of extended attributes of the table column arq_imagem

Name	Data Type	Value	Target Name
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.5.15 List of keys of the table Perfil

<i>Name</i>	<i>Code</i>	<i>Primary</i>
Key_1	Key_1	X

4.2.1.5.16 Key Key_1 of the table Perfil**4.2.1.5.16.1 Card of the key Key_1 of the table Perfil**

<i>Name</i>	Key_1
<i>Code</i>	Key_1
<i>Table</i>	Perfil

4.2.1.5.16.2 Code preview of the key Key_1 of the table Perfil

alter table Perfil

add primary key (cod_perfil);

alter table Plantas add constraint FK_Associacao_Pefil_Plantas foreign key (cod_perfil)
references Perfil (cod_perfil) on delete restrict on update restrict;

alter table Regas add constraint FK_Perfil_Regas foreign key (cod_perfil)
references Perfil (cod_perfil) on delete restrict on update restrict;

4.2.1.5.16.3 List of columns of the table key Key_1

<i>Name</i>	<i>Code</i>
cod_perfil	cod_perfil

4.2.1.5.16.4 List of all dependencies of the table key Key_1

<i>Name</i>	<i>Code</i>	<i>Class Name</i>
Associacao_Pefil_Plantas	Associacao_Pefil_Plantas	Reference
Perfil_Regas	Perfil_Regas	Reference

4.2.1.5.16.5 List of extended attributes of the table key Key_1

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
ExtUnique	(Boolean)	false	MySQL 5.0

4.2.1.6 Table Plantas**4.2.1.6.1 Card of table Plantas**

<i>Name</i>	Plantas
<i>Code</i>	Plantas
<i>DBMS</i>	MySQL 5.0

4.2.1.6.2 Check constraint name of the table Plantas

TK_Plantas

4.2.1.6.3 Server validation rule of the table Plantas

%RULES%

4.2.1.6.4 Code preview of the table Plantas

drop table if exists Plantas;

```
/*=====*/
/* Table: Plantas */
/*=====*/
create table Plantas
```

```
(
    cod_usuarios    int,
    cod_perfil      int,
    cod_planta      int not null,
    nom_planta      char(100),
    des_descplanta  text,
    arq_imagem      blob,
    qtdagua         float
);

alter table Plantas
    add primary key (cod_planta);

alter table Plantas add constraint FK_Associacao_Pefil_Plantas foreign key (cod_perfil)
    references Perfil (cod_perfil) on delete restrict on update restrict;

alter table Plantas add constraint FK_Cadastro_Plantas foreign key (cod_usuarios)
    references Usuarios (cod_usuarios) on delete restrict on update restrict;

alter table Regas add constraint FK_Cadastro_Regras foreign key (cod_planta)
    references Plantas (cod_planta) on delete restrict on update restrict;
```

4.2.1.6.5 List of diagrams containing the table Plantas

Name	Code
DER	PHYSICALDIAGRAM_1

4.2.1.6.6 List of incoming references of the table Plantas

Name	Code
Cadastro_Regras	Cadastro_Regras

4.2.1.6.7 List of outgoing references of the table Plantas

Name	Code	Foreign Key Columns
Associacao_Pefil_Plantas	Associacao_Pefil_Plantas	cod_perfil
Cadastro_Plantas	Cadastro_Plantas	cod_usuarios

4.2.1.6.8 List of all dependencies of the table Plantas

Name	Code	Class Name
Associacao_Pefil_Plantas	Associacao_Pefil_Plantas	Reference
Cadastro_Plantas	Cadastro_Plantas	Reference
Cadastro_Regras	Cadastro_Regras	Reference

4.2.1.6.9 List of extended attributes of the table Plantas

Name	Data Type	Value	Target Name
Temporary	(Boolean)	false	MySQL 5.0

4.2.1.6.10 List of columns of the table Plantas

Name	Code
cod_usuarios	cod_usuarios
cod_perfil	cod_perfil
cod_planta	cod_planta
nom_planta	nom_planta
des_descplanta	des_descplanta
arq_imagem	arq_imagem
qtdagua	qtdagua

4.2.1.6.11 Column cod_usuarios of the table Plantas**4.2.1.6.11.1 Card of the column cod_usuarios of the table Plantas**

<i>Name</i>	cod_usuarios
<i>Code</i>	cod_usuarios
<i>Data Type</i>	int
<i>Mandatory</i>	No

4.2.1.6.11.2 Check constraint name of the column cod_usuarios of the table Plantas

CK_cod_usuarios

4.2.1.6.11.3 Check of the column cod_usuarios of the table Plantas

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.6.11.4 Server validation rule of the column cod_usuarios of the table Plantas

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.6.11.5 List of all dependencies of the table column cod_usuarios

<i>Name</i>	<i>Code</i>	<i>Class Name</i>
?	?	Reference Join

4.2.1.6.11.6 List of extended attributes of the table column cod_usuarios

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.6.12 Column cod_perfil of the table Plantas**4.2.1.6.12.1 Card of the column cod_perfil of the table Plantas**

<i>Name</i>	cod_perfil
<i>Code</i>	cod_perfil
<i>Data Type</i>	int
<i>Mandatory</i>	No

4.2.1.6.12.2 Check constraint name of the column cod_perfil of the table Plantas

CK_cod_perfil

4.2.1.6.12.3 Check of the column cod_perfil of the table Plantas

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	

<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.6.12.4 Server validation rule of the column cod_perfil of the table Plantas

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.6.12.5 List of all dependencies of the table column cod_perfil

<i>Name</i>	<i>Code</i>	<i>Class Name</i>
?	?	Reference Join

4.2.1.6.12.6 List of extended attributes of the table column cod_perfil

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.6.13 Column cod_planta of the table Plantas**4.2.1.6.13.1 Card of the column cod_planta of the table Plantas**

<i>Name</i>	cod_planta
<i>Code</i>	cod_planta
<i>Data Type</i>	int
<i>Mandatory</i>	Yes

4.2.1.6.13.2 Check constraint name of the column cod_planta of the table Plantas

CK_cod_planta

4.2.1.6.13.3 Check of the column cod_planta of the table Plantas

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.6.13.4 Server validation rule of the column cod_planta of the table Plantas

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.6.13.5 List of all dependencies of the table column cod_planta

<i>Name</i>	<i>Code</i>	<i>Class Name</i>
?	?	Reference Join
Key_1	Key_1	Key

4.2.1.6.13.6 List of extended attributes of the table column cod_planta

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.6.14 Column nom_planta of the table Plantas

4.2.1.6.14.1 Card of the column nom_planta of the table Plantas

<i>Name</i>	nom_planta
<i>Code</i>	nom_planta
<i>Data Type</i>	char(100)
<i>Mandatory</i>	No

4.2.1.6.14.2 Check constraint name of the column nom_planta of the table Plantas

CK_nom_planta

4.2.1.6.14.3 Check of the column nom_planta of the table Plantas

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.6.14.4 Server validation rule of the column nom_planta of the table Plantas

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.6.14.5 List of extended attributes of the table column nom_planta

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.6.15 Column des_descplanta of the table Plantas

4.2.1.6.15.1 Card of the column des_descplanta of the table Plantas

<i>Name</i>	des_descplanta
<i>Code</i>	des_descplanta
<i>Data Type</i>	text
<i>Mandatory</i>	No

4.2.1.6.15.2 Check constraint name of the column des_descplanta of the table Plantas

CK_des_descplanta

4.2.1.6.15.3 Check of the column des_descplanta of the table Plantas

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	

<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.6.15.4 Server validation rule of the column des_descplanta of the table Plantas

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.6.15.5 List of extended attributes of the table column des_descplanta

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.6.16 Column arq_imagem of the table Plantas

4.2.1.6.16.1 Card of the column arq_imagem of the table Plantas

<i>Name</i>	arq_imagem
<i>Code</i>	arq_imagem
<i>Data Type</i>	blob
<i>Mandatory</i>	No

4.2.1.6.16.2 Check constraint name of the column arq_imagem of the table Plantas

CK_arq_imagem

4.2.1.6.16.3 Check of the column arq_imagem of the table Plantas

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.6.16.4 Server validation rule of the column arq_imagem of the table Plantas

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.6.16.5 List of extended attributes of the table column arq_imagem

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.6.17 Column qtdagua of the table Plantas

4.2.1.6.17.1 Card of the column qtdagua of the table Plantas

<i>Name</i>	qtdagua
<i>Code</i>	qtdagua
<i>Data Type</i>	float
<i>Mandatory</i>	No

4.2.1.6.17.2 Check constraint name of the column qtdagua of the table Plantas

CK_qtdagua

4.2.1.6.17.3 Check of the column qtdagua of the table Plantas

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

4.2.1.6.17.4 Server validation rule of the column qtdagua of the table Plantas

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.6.17.5 List of extended attributes of the table column qtdagua

Name	Data Type	Value	Target Name
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.6.18 List of keys of the table Plantas

Name	Code	Primary
Key_1	Key_1	X

4.2.1.6.19 Key Key_1 of the table Plantas**4.2.1.6.19.1 Card of the key Key_1 of the table Plantas**

Name	Key_1
Code	Key_1
Table	Plantas

4.2.1.6.19.2 Code preview of the key Key_1 of the table Plantas

```
alter table Plantas
  add primary key (cod_planta);
```

```
alter table Regas add constraint FK_Cadastro_Regras foreign key (cod_planta)
  references Plantas (cod_planta) on delete restrict on update restrict;
```

4.2.1.6.19.3 List of columns of the table key Key_1

Name	Code
cod_planta	cod_planta

4.2.1.6.19.4 List of all dependencies of the table key Key_1

Name	Code	Class Name
Cadastro_Regras	Cadastro_Regras	Reference

4.2.1.6.19.5 List of extended attributes of the table key Key_1

Name	Data Type	Value	Target Name
ExtUnique	(Boolean)	false	MySQL 5.0

4.2.1.7 Table Regas**4.2.1.7.1 Card of table Regas**

<i>Name</i>	Regas
<i>Code</i>	Regas
<i>DBMS</i>	MySQL 5.0

4.2.1.7.2 Check constraint name of the table Regas

TK_Regas

4.2.1.7.3 Server validation rule of the table Regas

%RULES%

4.2.1.7.4 Code preview of the table Regas

drop table if exists Regas;

```
/*=====*/
/* Table: Regas */
/*=====*/
```

create table Regas

```
(
  cod_rega      int not null,
  cod_perfil    int,
  cod_planta    int,
  iniciorega    datetime,
  fimrega       datetime
);
```

alter table Regas

add primary key (cod_rega);

```
alter table Regas add constraint FK_Cadastro_Regras foreign key (cod_planta)
references Plantas (cod_planta) on delete restrict on update restrict;
```

```
alter table Regas add constraint FK_Perfil_Regas foreign key (cod_perfil)
references Perfil (cod_perfil) on delete restrict on update restrict;
```

4.2.1.7.5 List of diagrams containing the table Regas

<i>Name</i>	<i>Code</i>
DER	PHYSICALDIAGRAM_1

4.2.1.7.6 List of outgoing references of the table Regas

<i>Name</i>	<i>Code</i>	<i>Foreign Key Columns</i>
Cadastro_Regras	Cadastro_Regras	cod_planta
Perfil_Regas	Perfil_Regas	cod_perfil

4.2.1.7.7 List of all dependencies of the table Regas

<i>Name</i>	<i>Code</i>	<i>Class Name</i>
Cadastro_Regras	Cadastro_Regras	Reference
Perfil_Regas	Perfil_Regas	Reference

4.2.1.7.8 List of extended attributes of the table Regas

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
Temporary	(Boolean)	false	MySQL 5.0

<i>Name</i>	<i>Code</i>
cod_rega	cod_rega
cod_perfil	cod_perfil
cod_planta	cod_planta
iniorega	iniorega
fimrega	fimrega

4.2.1.7.10 Column cod_rega of the table Regas

4.2.1.7.10.1 Card of the column cod_rega of the table Regas

<i>Name</i>	cod_rega
<i>Code</i>	cod_rega
<i>Data Type</i>	int
<i>Mandatory</i>	Yes

4.2.1.7.10.2 Check constraint name of the column cod_rega of the table Regas

CK_cod_rega

4.2.1.7.10.3 Check of the column cod_rega of the table Regas

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.7.10.4 Server validation rule of the column cod_rega of the table Regas

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.7.10.5 List of all dependencies of the table column cod_rega

<i>Name</i>	<i>Code</i>	<i>Class Name</i>
Key_1	Key_1	Key

4.2.1.7.10.6 List of extended attributes of the table column cod_rega

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	Charsets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.7.11 Column cod_perfil of the table Regas

4.2.1.7.11.1 Card of the column cod_perfil of the table Regas

<i>Name</i>	cod_perfil
<i>Code</i>	cod_perfil
<i>Data Type</i>	int
<i>Mandatory</i>	No

4.2.1.7.11.2 Check constraint name of the column cod_perfil of the table Regas

CK_cod_perfil

4.2.1.7.11.3 Check of the column cod_perfil of the table Regas

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

4.2.1.7.11.4 Server validation rule of the column cod_perfil of the table Regas

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.7.11.5 List of all dependencies of the table column cod_perfil

Name	Code	Class Name
?	?	Reference Join

4.2.1.7.11.6 List of extended attributes of the table column cod_perfil

Name	Data Type	Value	Target Name
CharSet	Charsets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.7.12 Column cod_planta of the table Regas**4.2.1.7.12.1 Card of the column cod_planta of the table Regas**

Name	cod_planta
Code	cod_planta
Data Type	int
Mandatory	No

4.2.1.7.12.2 Check constraint name of the column cod_planta of the table Regas

CK_cod_planta

4.2.1.7.12.3 Check of the column cod_planta of the table Regas

Minimum Value	
Maximum Value	
Default Value	
Unit	
Format	
Cannot Modify	No
List Of Values	

4.2.1.7.12.4 Server validation rule of the column cod_planta of the table Regas

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.7.12.5 List of all dependencies of the table column cod_planta

Name	Code	Class Name
?	?	Reference Join

4.2.1.7.12.6 List of extended attributes of the table column cod_planta

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.7.13 Column iniciorega of the table Regas**4.2.1.7.13.1 Card of the column iniciorega of the table Regas**

<i>Name</i>	iniciorega
<i>Code</i>	iniciorega
<i>Data Type</i>	datetime
<i>Mandatory</i>	No

4.2.1.7.13.2 Check constraint name of the column iniciorega of the table Regas

CK_iniciorega

4.2.1.7.13.3 Check of the column iniciorega of the table Regas

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.7.13.4 Server validation rule of the column iniciorega of the table Regas

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.7.13.5 List of extended attributes of the table column iniciorega

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.7.14 Column fimrega of the table Regas**4.2.1.7.14.1 Card of the column fimrega of the table Regas**

<i>Name</i>	fimrega
<i>Code</i>	fimrega
<i>Data Type</i>	datetime
<i>Mandatory</i>	No

4.2.1.7.14.2 Check constraint name of the column fimrega of the table Regas

CK_fimrega

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.7.14.4 Server validation rule of the column fimrega of the table Regas

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.7.14.5 List of extended attributes of the table column fimrega

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.7.15 List of keys of the table Regas

<i>Name</i>	<i>Code</i>	<i>Primary</i>
Key_1	Key_1	X

4.2.1.7.16 Key Key_1 of the table Regas**4.2.1.7.16.1 Card of the key Key_1 of the table Regas**

<i>Name</i>	Key_1
<i>Code</i>	Key_1
<i>Table</i>	Regas

4.2.1.7.16.2 Code preview of the key Key_1 of the table Regas

```
alter table Regas
  add primary key (cod_rega);
```

4.2.1.7.16.3 List of columns of the table key Key_1

<i>Name</i>	<i>Code</i>
cod_rega	cod_rega

4.2.1.7.16.4 List of extended attributes of the table key Key_1

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
ExtUnique	(Boolean)	false	MySQL 5.0

4.2.1.8 Table Usuarios**4.2.1.8.1 Card of table Usuarios**

<i>Name</i>	Usuarios
<i>Code</i>	Usuarios
<i>DBMS</i>	MySQL 5.0

4.2.1.8.2 Check constraint name of the table Usuarios

TK_Usuarios

4.2.1.8.3 Server validation rule of the table Usuarios

%RULES%

4.2.1.8.4 Code preview of the table Usuarios

drop table if exists Usuarios;

```

/*=====*/
/* Table: Usuarios */
/*=====*/
create table Usuarios
(
    cod_usuarios    int not null,
    nom_nome        char(50),
    nom_sobrenome    char(50),
    des_rg          char(15),
    des_cpf         char(11),
    des_endereco1    char(100),
    des_endereco2    char(100),
    des_telefone     char(11)
);

```

```

alter table Usuarios
    add primary key (cod_usuarios);

```

```

alter table Login add constraint FK_Cadastro_Login foreign key (cod_usuarios)
    references Usuarios (cod_usuarios) on delete restrict on update restrict;

```

```

alter table Perfil add constraint FK_Definir_Perfil foreign key (cod_usuarios)
    references Usuarios (cod_usuarios) on delete restrict on update restrict;

```

```

alter table Plantas add constraint FK_Cadastro_Plantas foreign key (cod_usuarios)
    references Usuarios (cod_usuarios) on delete restrict on update restrict;

```

4.2.1.8.5 List of diagrams containing the table Usuarios

Name	Code
DER	PHYSICALDIAGRAM_1

4.2.1.8.6 List of incoming references of the table Usuarios

Name	Code
Cadastro_Login	Cadastro_Login
Cadastro_Plantas	Cadastro_Plantas
Definir_Perfil	Definir_Perfil

4.2.1.8.7 List of all dependencies of the table Usuarios

Name	Code	Class Name
Cadastro_Login	Cadastro_Login	Reference
Cadastro_Plantas	Cadastro_Plantas	Reference
Definir_Perfil	Definir_Perfil	Reference

4.2.1.8.8 List of extended attributes of the table Usuarios

Name	Data Type	Value	Target Name
Temporary	(Boolean)	false	MySQL 5.0

4.2.1.8.9 List of columns of the table Usuarios

Name	Code
cod_usuarios	cod_usuarios

<i>Name</i>	<i>Code</i>
nom_nome	nom_nome
nom_sobrenome	nom_sobrenome
des_rg	des_rg
des_cpf	des_cpf
des_endereco1	des_endereco1
des_endereco2	des_endereco2
des_telefone	des_telefone

4.2.1.8.10 Column cod_usuarios of the table Usuarios

4.2.1.8.10.1 Card of the column cod_usuarios of the table Usuarios

<i>Name</i>	cod_usuarios
<i>Code</i>	cod_usuarios
<i>Data Type</i>	int
<i>Mandatory</i>	Yes

4.2.1.8.10.2 Check constraint name of the column cod_usuarios of the table Usuarios

CK_cod_usuarios

4.2.1.8.10.3 Check of the column cod_usuarios of the table Usuarios

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.8.10.4 Server validation rule of the column cod_usuarios of the table Usuarios

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.8.10.5 List of all dependencies of the table column cod_usuarios

<i>Name</i>	<i>Code</i>	<i>Class Name</i>
?	?	Reference Join
?	?	Reference Join
?	?	Reference Join
Key_1	Key_1	Key

4.2.1.8.10.6 List of extended attributes of the table column cod_usuarios

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.8.11 Column nom_nome of the table Usuarios

4.2.1.8.11.1 Card of the column nom_nome of the table Usuarios

<i>Name</i>	nom_nome
-------------	----------

<i>Code</i>	nom_nome
<i>Data Type</i>	char(50)
<i>Mandatory</i>	No

4.2.1.8.11.2 Check constraint name of the column nom_nome of the table Usuarios

CK_nom_nome

4.2.1.8.11.3 Check of the column nom_nome of the table Usuarios

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.8.11.4 Server validation rule of the column nom_nome of the table Usuarios

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.8.11.5 List of extended attributes of the table column nom_nome

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.8.12 Column nom_sobrenome of the table Usuarios**4.2.1.8.12.1 Card of the column nom_sobrenome of the table Usuarios**

<i>Name</i>	nom_sobrenome
<i>Code</i>	nom_sobrenome
<i>Data Type</i>	char(50)
<i>Mandatory</i>	No

4.2.1.8.12.2 Check constraint name of the column nom_sobrenome of the table Usuarios

CK_nom_sobrenome

4.2.1.8.12.3 Check of the column nom_sobrenome of the table Usuarios

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.8.12.4 Server validation rule of the column nom_sobrenome of the table Usuarios

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.8.12.5 List of extended attributes of the table column nom_sobrenome

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
-------------	------------------	--------------	--------------------

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.8.13 Column des_rg of the table Usuarios

4.2.1.8.13.1 Card of the column des_rg of the table Usuarios

<i>Name</i>	des_rg
<i>Code</i>	des_rg
<i>Data Type</i>	char(15)
<i>Mandatory</i>	No

4.2.1.8.13.2 Check constraint name of the column des_rg of the table Usuarios

CK_des_rg

4.2.1.8.13.3 Check of the column des_rg of the table Usuarios

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.8.13.4 Server validation rule of the column des_rg of the table Usuarios

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.8.13.5 List of extended attributes of the table column des_rg

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.8.14 Column des_cpf of the table Usuarios

4.2.1.8.14.1 Card of the column des_cpf of the table Usuarios

<i>Name</i>	des_cpf
<i>Code</i>	des_cpf
<i>Data Type</i>	char(11)
<i>Mandatory</i>	No

4.2.1.8.14.2 Check constraint name of the column des_cpf of the table Usuarios

CK_des_cpf

4.2.1.8.14.3 Check of the column des_cpf of the table Usuarios

<i>Minimum Value</i>	
<i>Maximum Value</i>	

<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.8.14.4 Server validation rule of the column des_cpf of the table Usuarios

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.8.14.5 List of extended attributes of the table column des_cpf

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.8.15 Column des_endereco1 of the table Usuarios

4.2.1.8.15.1 Card of the column des_endereco1 of the table Usuarios

<i>Name</i>	des_endereco1
<i>Code</i>	des_endereco1
<i>Data Type</i>	char(100)
<i>Mandatory</i>	No

4.2.1.8.15.2 Check constraint name of the column des_endereco1 of the table Usuarios

CK_des_endereco1

4.2.1.8.15.3 Check of the column des_endereco1 of the table Usuarios

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.8.15.4 Server validation rule of the column des_endereco1 of the table Usuarios

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.8.15.5 List of extended attributes of the table column des_endereco1

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.8.16 Column des_endereco2 of the table Usuarios

4.2.1.8.16.1 Card of the column des_endereco2 of the table Usuarios

<i>Name</i>	des_endereco2
-------------	---------------

<i>Code</i>	des_endereco2
<i>Data Type</i>	char(100)
<i>Mandatory</i>	No

4.2.1.8.16.2 Check constraint name of the column des_endereco2 of the table Usuarios

CK_des_endereco2

4.2.1.8.16.3 Check of the column des_endereco2 of the table Usuarios

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.8.16.4 Server validation rule of the column des_endereco2 of the table Usuarios

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.8.16.5 List of extended attributes of the table column des_endereco2

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.8.17 Column des_telefone of the table Usuarios**4.2.1.8.17.1 Card of the column des_telefone of the table Usuarios**

<i>Name</i>	des_telefone
<i>Code</i>	des_telefone
<i>Data Type</i>	char(11)
<i>Mandatory</i>	No

4.2.1.8.17.2 Check constraint name of the column des_telefone of the table Usuarios

CK_des_telefone

4.2.1.8.17.3 Check of the column des_telefone of the table Usuarios

<i>Minimum Value</i>	
<i>Maximum Value</i>	
<i>Default Value</i>	
<i>Unit</i>	
<i>Format</i>	
<i>Cannot Modify</i>	No
<i>List Of Values</i>	

4.2.1.8.17.4 Server validation rule of the column des_telefone of the table Usuarios

%MINMAX% and %LISTVAL% and %CASE% and %RULES%

4.2.1.8.17.5 List of extended attributes of the table column des_telefone

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
-------------	------------------	--------------	--------------------

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
CharSet	CharSets		MySQL 5.0
Collate	(String)		MySQL 5.0
National	(Boolean)	false	MySQL 5.0
Unsigned	(Boolean)	false	MySQL 5.0
ZeroFill	(Boolean)	false	MySQL 5.0

4.2.1.8.18 List of keys of the table Usuarios

<i>Name</i>	<i>Code</i>	<i>Primary</i>
Key_1	Key_1	X

4.2.1.8.19 Key Key_1 of the table Usuarios

4.2.1.8.19.1 Card of the key Key_1 of the table Usuarios

<i>Name</i>	Key_1
<i>Code</i>	Key_1
<i>Table</i>	Usuarios

4.2.1.8.19.2 Code preview of the key Key_1 of the table Usuarios

alter table Usuarios

add primary key (cod_usuarios);

alter table Login add constraint FK_Cadastro_Login foreign key (cod_usuarios)

references Usuarios (cod_usuarios) on delete restrict on update restrict;

alter table Perfil add constraint FK_Definir_Perfil foreign key (cod_usuarios)

references Usuarios (cod_usuarios) on delete restrict on update restrict;

alter table Plantas add constraint FK_Cadastro_Plantas foreign key (cod_usuarios)

references Usuarios (cod_usuarios) on delete restrict on update restrict;

4.2.1.8.19.3 List of columns of the table key Key_1

<i>Name</i>	<i>Code</i>
cod_usuarios	cod_usuarios

4.2.1.8.19.4 List of all dependencies of the table key Key_1

<i>Name</i>	<i>Code</i>	<i>Class Name</i>
Cadastro_Login	Cadastro_Login	Reference
Cadastro_Plantas	Cadastro_Plantas	Reference
Definir_Perfil	Definir_Perfil	Reference

4.2.1.8.19.5 List of extended attributes of the table key Key_1

<i>Name</i>	<i>Data Type</i>	<i>Value</i>	<i>Target Name</i>
ExtUnique	(Boolean)	false	MySQL 5.0

