

# Data Dictionary

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# Entities

## User

Table: **usr\_usuario**

Description: System users.

Attribute	Type	Size	Constraint	Default Value	Description
usr_id	Integer	-	Primary key	-	User identifier.
usr_nome	Text	150	-	-	User name.
usr_doc	Text	14	-	-	User document number.
usr_proprietario	Boolean	-	-	-	Check if user is owner.
usr_email	Text	255	-	-	User e-mail.
usr_senha	Text	255	-	-	User password hash.
usr_permissao	Boolean	-	-	-	User data use authorization.
usr_adm	Boolean	-	-	-	Check if the user is system administrator.

# Term

Table: **trm\_termo**

Description: Terms of acceptance for using the system.

Attribute	Type	Size	Constraint	Default Value	Description
trm_id	Integer	-	Primary key	-	Term identifier.
trm_Date	Date	-	-	-	Term creation date.
trm_proprietario	Boolean	-	-	-	Term data use authorization.
trm_text	Text	-	-	-	Term content.

# History

Table: **htr\_historico**

Description: History of acceptance of terms by users.

Attribute	Type	Size	Constraint	Default Value	Description
<a href="#">htr_usr</a>	Integer	-	Foreign Key	-	User identifier.
<a href="#">htr_trm</a>	Integer	-	Foreign Key	-	Term identifier.
htr_Date	Date	-	-	-	Date of acceptance of terms.

- **htr\_usr** references [usr\\_usuario\(usr\\_id\)](#)
- **htr\_trm** references [trm\\_termo\(trm\\_id\)](#)

# Cycle

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Table: **ccl\_ciclo**

Description: Types of cycles.

Attribute	Type	Size	Constraint	Default Value	Description
ccl_id	Integer	-	Primary key	-	Cycle identifier.
ccl_descricao	Text	-	-	-	Type of cycle in full.

# Cultivation

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Table: **clt\_cultivo**

Description: Types of cultivation.

Attribute	Type	Size	Constraint	Default Value	Description
clt_id	Integer	-	Primary key	-	Cultivation identifier.
clt_descricao	Text	150	-	-	Type of cultivation in full.

# Grain Seed

Table: **gsm\_grao\_semente**

Description: Indicates of whether it is a grain or seed.

Attribute	Type	Size	Constraint	Default Value	Description
gsm_id	Integer	-	Primary key	-	Grain or Seed identifier.
gsm_descricao	Text	150	-	-	Description of whether it is a grain or seed.

# Irrigation

Table: **irg\_irrigacao**

Description: Types of irrigation.

Attribute	Type	Size	Constraint	Default Value	Description
irg_id	Integer	-	Primary key	-	Irrigation identifier.
irg_descricao	Text	150	-	-	Type of irrigation in full.

# Soil

Table: **sol\_solo**

Description: Types of foil.

Attribute	Type	Size	Constraint	Default Value	Description
sol_id	Integer	-	Primary key	-	Soil identifier.
sol_descricao	Text	150	-	-	Type of soil in full.

# Enterprise

Table: **emp\_empresa**

Description: Enterprise where the operations occurs.

Attribute	Type	Size	Constraint	Default Value	Description
emp_id	Integer	-	Primary key	-	Enterprise identifier.
emp_finalidade	Finality	-	-	-	Enterprise finality.
emp_atividade	Activity	-	-	-	Type of activity.
emp_modalidade	Modality	-	-	-	Enterprise modality.
emp_prodduto	Product	-	-	-	Product produced.
emp_variedade	Variety	-	-	-	Enterprise variety.
emp_cesta	Hamper	-	-	-	Enterprise type of harvest.
emp_zoneamento	Zoning	-	-	-	Zoning status.

# Operation

Table: **opr\_operacao**

Description: Planting and harvesting operations.

Attribute	Type	Size	Constraint	Default Value	Description
opr_id	Integer	-	Primary key	-	Operation identifier.
opr_inicio_plantio	Date	-	-	-	Planting initial date.
opr_fim_plantio	Date	-	-	-	Planting final date.
opr_inicio_colheita	Date	-	-	-	Harvesting initial date.
opr_fim_colheita	Date	-	-	-	Harvesting final date.
<b>opr_std</b>	Integer	-	Foreign Key	-	State identifier.
<b>opr_mun</b>	Integer	-	Foreign Key	-	City identifier.
<b>opr_sol</b>	Integer	-	Foreign Key	-	Type of soil identifier.
<b>opr_irg</b>	Integer	-	Foreign Key	-	Type of irrigation identifier.
<b>opr_clt</b>	Integer	-	Foreign Key	-	Type of cultivation identifier.
<b>opr_gsm</b>	Integer	-	Foreign Key	-	Grain or seed identifier.
<b>opr_ccl</b>	Integer	-	Foreign Key	-	Type of cycle identifier.
<b>opr_emp</b>	Integer	-	Foreign Key	-	Enterprise identifier.

- **opr\_std** references **std\_estado(std\_id)**;
- **opr\_mun** references **mun\_municipio(mun\_id)**;
- **opr\_sol** references **sol\_solo(sol\_id)**;
- **opr\_irg** references **irg\_irrigacao(irg\_id)**;
- **opr\_clt** references **clt\_cultivo(clt\_id)**;
- **opr\_gsm** references **gsm\_grao\_semente(gsm\_id)**;
- **opr\_ccl** references **ccl\_ciclo(ccl\_id)**;
- **opr\_emp** references **emp\_empresa(emp\_id)**.

# State

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Table: **std\_estado**

Description: Federative state.

Attribute	Type	Size	Constraint	Default Value	Description
std_id	Integer	-	Primary key	-	State identifier.
std_descricao	Text	2	-	-	State acronym.

# City

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Table: **mun\_municipio**

Description: City where the operations occurs.

Attribute	Type	Size	Constraint	Default Value	Description
mun_id	Integer	-	Primary key	-	City identifier.
mun_descricao	Text	255	-	-	Name of the city.



# Land

Table: **glb\_gleba**

Description: Land where the operations occurs.

Attribute	Type	Size	Constraint	Default Value	Description
glb_id	Integer	-	Primary key	-	Land identifier.
glb_poligono	Polygon	4326	-	-	Land perimeter points.
<b>glb_opr</b>	Integer	-	Foreign Key	-	Operation identifier.

- **glb\_opr** references [opr\\_operacao\(opr\\_id\)](#)

# Property

Table: **prp\_propriedade**

Description: Property where the operations occurs.

Attribute	Type	Size	Constraint	Default Value	Description
prp_id	Integer	-	Primary key	-	Property identifier.
prp_doc	Text	14	-	-	Property document registration.
prp_sncr	Text	255	-	-	Sistema Nacional de Cadastro Rural registration.
prp_nirf	Text	255	-	-	Cadastro Nacional de Imóvel Rural registration.
prp_car	Text	255	-	-	Cadastro Ambiental Rural registration.
<b>prp_opr</b>	Integer	-	Foreign Key	-	Operation identifier.

- **prp\_opr** references [opr\\_operacao\(opr\\_id\)](#)

# Types

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## Finality

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Name: finalidade\_type

Description: Enterprise finality.

Options:

- Custeio
- Comercialização

## Activity

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Name: atividade\_type

Description: Enterprise types of activity.

Options:

- Agrícola

# Modality

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Name: modalidade\_type

Description: Enterprise types of modality.

Options:

- LAVOURA
- BENEFICIAMENTO OU INDUSTRIALIZAÇÃO
- FEPM (EX-EGF) - encerrado
- FEE (EX-LEC)
- PRÉ-COMERCIALIZAÇÃO - encerrado
- DESCONTO (NPR E DR)
- CPR (CÉDULA DE PRODUTO RURAL)
- ESTOCAGEM
- FGPP-Financiamento para Garantia de Preços ao Prod
- COVID-19 - Resolução 4801/2020
- ESTIAGEM - Resolução 4802/2020
- Financiamento para Aquisição da Produção/Materia P
- Aquisição de Matéria Prima direto do Produtor/Coop

# Product

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Name: produto\_type

Description: Types of product.

Options:

- SOJA

# Variety

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Name: variedade\_type

Description: Enterprise variety.

Options:

- NÃO SE APLICA
- CULTIVO EM SISTEMAS INTEGRADOS
- VARIEDADE
- SEMENTE
- FARELO
- ÓLEO BRUTO DEGOMADO
- EM GRÃOS
- ÓLEO

# Hamper

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Name: cesta\_type

Description: Types of harvest.

Options:

- Irrigadas
- Safra de Verão (1ª Safra)
- Safrinha (2ª Safra)
- Ano Civil / Ano de Exploração

# Zoning

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Name: zoneamento\_type

Description: Zoning status.

Options:

- Não zoneado
- Zoneado