# Data Dictionary

## Summary

# 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_email | Text | 255 | - | - | User e-mail. |
| usr_senha | Text | 255 | - | - | User password hash. |
| usr_grupo | Text | 255 | - | - | User group. |
| usr_ativo | Boolean | - | - | - | Check if the user is active on system. |

# 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_data | Date | - | - | - | Term creation date. |
| trm_text | Text | - | - | - | Term content. |
| trm_group | Text | - | - | - | Group that the term is destinated. |

# Term Condition

Table: **trc_termo_condicao**

Description: Conditions of the terms of acceptance for using the system.

| Attribute | Type | Size | Constraint | Default Value | Description |
|---|---|---|---|---|---|
| trc_id | Integer | - | Primary key | - | Condition identifier. |
| trm_id | Integer | - | Foreign Key | - | Term that the condition is binded. |
| trc_texto | Text | - | - | - | Condition content. |
| trc_servico | Text | - | - | - | Service that is linked with the condition. |

- **trm_id** references **trm_termo(trm_id)**;

# Term Acceptance

Table: **utr_usuario_termo**

Description: Acceptance of the terms by the users.

| Attribute | Type | Size | Constraint | Default Value | Description |
|---|---|---|---|---|---|
| trm_id | Integer | - | Foreign Key | - | Term identifier. |
| usr_id | Integer | - | Foreign Key | - | User identifier. |
| utr_aceite | Boolean | - | - | - | Check if the user accepted the term. |
| utr_data | Date | - | - | - | Register's date. |

- **trm_id** references **trm_termo(trm_id)**;
- **usr_id** references **usr_usuario(usr_id)**;

# Term Condition Acceptance

Table: **utc_usuario_termo_condicao**

Description: Acceptance of the conditions by the users.

| Attribute | Type | Size | Constraint | Default Value | Description |
|---|---|---|---|---|---|
| trc_id | Integer | - | Foreign Key | - | Condition identifier. |
| usr_id | Integer | - | Foreign Key | - | User identifier. |
| utc_aceite | Boolean | - | - | - | Check if the user accepted the condition. |
| utc_data | Date | - | - | - | Register's date. |

- **trc_id** references **trc_termo_condicao(trc_id)**;
- **usr_id** references **usr_usuario(usr_id)**;

# Cycle

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

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_empreendimento**

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. |
| **opr_std** | Integer | - | Foreign Key | - | State identifier. |
| **opr_mun** | Integer | - | Foreign Key | - | City identifier. |
| **opr_sol** | Integer | - | Foreign Key | - | Type of soil identifier. |
| **opr_irg** | Integer | - | Foreign Key | - | Type of irrigation identifier. |
| **opr_clt** | Integer | - | Foreign Key | - | Type of cultivation identifier. |
| **opr_gsm** | Integer | - | Foreign Key | - | Grain or seed identifier. |
| **opr_ccl** | Integer | - | Foreign Key | - | Type of cycle identifier. |
| **opr_emp** | 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_empreendimento(emp_id)**.

# State

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

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. |
| **glb_opr** | 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. |
| **prp_opr** | Integer | - | Foreign Key | - | Operation identifier. |

- **prp_opr** references **opr_operacao(opr_id)**

# Types

## Finality

Name: finalidade_type
Description: Enterprise finality.
Options:

- Custeio
- Comercialização

## Activity

Name: atividade_type
Description: Enterprise types of activity.
Options:

- Agrícola

# Modality

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

Name: produto_type

Description: Types of product.

Options:

- SOJA

# Variety

Name: variedade_type
Description: Enterprise variety.
Options:

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

# Hamper

Name: cesta_type
Description: Types of harvest.
Options:

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

# Zoning

Name: zoneamento_type
Description: Zoning status.
Options:

- Não zoneado
- Zoneado