



Documentação Técnica Banco de Dados ELOGICA_RH

Informações Gerais

Nome do Banco de Dados: ELOGICA_RH

Tecnologia Utilizada: SQL Server

Descrição: Este banco foi projetado para gerenciamento de Recursos Humanos (RH), contemplando dados de funcionários, cargos, setores, horários, menus e férias. Observações:

- Todos os IDs são autoincremento (IDENTITY).
- As tabelas utilizam chaves primárias (PK) e chaves estrangeiras (FK) com integridade referencial.
- A modelagem favorece integridade e normalização de dados.

Estrutura das Tabelas

Menu

Coluna	Tipo	Restrições
Id	INT	PK, NOT NULL
Titulo	VARCHAR(50)	NOT NULL
Descricao	VARCHAR(250)	NULL
Url	VARCHAR(20)	NULL
Icone	VARCHAR(20)	NULL
Ordem	INT	NOT NULL
MenuPaiId	INT	FK → Menu(Id), NULL

Horarios

Coluna	Tipo	Restrições
Id	INT	PK, IDENTITY
HorarioInicio	DATETIME	NOT NULL
HorarioFim	DATETIME	NOT NULL
IntervaloInicio	DATETIME	NULL
IntervaloFim	DATETIME	NULL

Cargos

Coluna	Tipo	Restrições
Id	INT	PK, IDENTITY
Titulo	VARCHAR(50)	NOT NULL
Descricao	VARCHAR(250)	NULL
SalarioBase	FLOAT	NOT NULL, CHECK (SalarioBase >= 2000)

Setores

Coluna	Tipo	Restrições
Id	INT	PK, IDENTITY
Nome	VARCHAR(50)	NOT NULL
Descricao	VARCHAR(250)	NOT NULL

CargosSetores

Coluna	Tipo	Restrições
CargosId	INT	FK → Cargos(Id),

		CASCADE	
		CASCADE	
SetoresId	INT	FK → Setores(Id), CASCADE	Ferias

Funcionarios

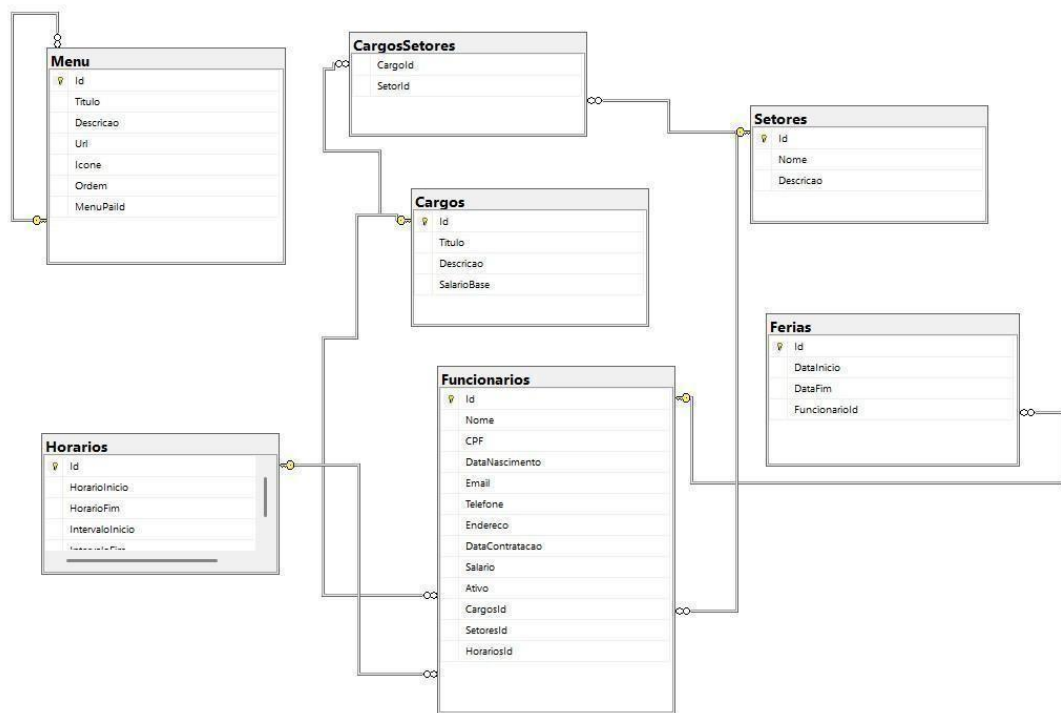
Coluna	Tipo	Restrições
Id	INT	PK, IDENTITY
Nome	VARCHAR(50)	NOT NULL
CPF	VARCHAR(11)	NOT NULL, UNIQUE
DataNascimento	DATETIME	NOT NULL
Email	VARCHAR(50)	NOT NULL, UNIQUE
Telefone	VARCHAR(11)	NOT NULL
Endereco	VARCHAR(250)	NOT NULL
DataContratacao	DATETIME	NOT NULL
Salario	FLOAT	NOT NULL, CHECK (Salario >= 2000)
Ativo	BIT	NOT NULL
CargosId	INT	FK → Cargos(Id), CASCADE
SetoresId	INT	FK → Setores(Id), CASCADE
HorariosId	INT	FK → Horarios(Id), Restrições
Coluna	Tipo	
Id	INT	PK, IDENTITY

DataInicio	DATETIME	NOT NULL
DataFim	DATETIME	NOT NULL, CHECK (DataFim > DataInicio)
Funcionariold	INT	FK → Funcionarios(Id), CASCADE

Relacionamentos

- Funcionarios está relacionado a:
- Cargos (1:N)
- Setores (1:N)
- Horarios (1:N)
- Ferias (1:N)
- CargosSetores estabelece relação N:N entre Cargos e Setores.
- Menu possui uma relação auto-referenciada, permitindo submenus.

Anexos:



SCRIPTS:

CREATE DATABASE ELOGICA_RH

USE ELOGICA_RH

CREATE TABLE Menu (

Id INT PRIMARY KEY IDENTITY(1,1),

Titulo VARCHAR(50) NOT NULL,

Descricao VARCHAR(250) NULL,

Uri VARCHAR(20) NULL,

Icone VARCHAR(20) NULL,

```
Ordem INT NOT NULL,  
  
MenuPaild INT NULL,  
  
FOREIGN KEY (MenuPaild) REFERENCES Menu(Id)  
  
);
```

```
CREATE TABLE Horarios (  
  
    Id INT PRIMARY KEY IDENTITY(1,1),  
  
    HorarioInicio DATETIME NOT NULL,  
  
    HorarioFim DATETIME NOT NULL,  
  
    IntervaloInicio DATETIME NULL,  
  
    IntervaloFim DATETIME NULL  
  
);
```

```
CREATE TABLE Cargos(  
  
    Id INT PRIMARY KEY IDENTITY(1,1),  
  
    Titulo VARCHAR(50) NOT NULL,  
  
    Descricao VARCHAR(250),  
  
    SalarioBase FLOAT NOT NULL CHECK(SalarioBase >= 2000)  
  
);
```

```
CREATE TABLE Setores (  
    Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,  
    Nome VARCHAR(50) NOT NULL,  
    Descricao VARCHAR(250) NOT NULL  
);
```

```
CREATE TABLE CargosSetores (  
    CargosId INT NOT NULL,  
    SetoresId INT NOT NULL,  
    FOREIGN KEY (CargosId) REFERENCES Cargos(Id)  
        ON DELETE CASCADE ON UPDATE CASCADE,  
    FOREIGN KEY (SetoresId) REFERENCES Setores(Id)  
        ON DELETE CASCADE ON UPDATE CASCADE  
);
```

```
CREATE TABLE Funcionarios (  
    Id INT IDENTITY (1,1) PRIMARY KEY NOT NULL,  
    Nome VARCHAR(50) NOT NULL,  
    CPF VARCHAR(11) NOT NULL,  
    DataNascimento DATETIME NOT NULL,
```



```
Email VARCHAR(50) UNIQUE NOT NULL,  
  
Telefone VARCHAR(11) NOT NULL,  
  
Endereco VARCHAR(250) NOT NULL,  
  
DataContratacao DATETIME NOT NULL,  
  
Salario FLOAT NOT NULL CHECK (Salario>=2000),  
  
Ativo BIT NOT NULL,  
  
CargosId INT NOT NULL,  
  
SetoresId INT NOT NULL,  
  
HorariosId INT NOT NULL,  
  
FOREIGN KEY (CargosId) REFERENCES Cargos(Id)  
  
    ON DELETE CASCADE ON UPDATE CASCADE,  
  
FOREIGN KEY (SetoresId) REFERENCES Setores(Id)  
  
    ON DELETE CASCADE ON UPDATE CASCADE,  
  
FOREIGN KEY (HorariosId) REFERENCES Horarios(Id)  
  
    ON DELETE CASCADE ON UPDATE CASCADE  
  
);
```

```
CREATE TABLE Ferias (  
  
    Id INT PRIMARY KEY IDENTITY(1,1),  
  
    DataInicio DATETIME NOT NULL,
```

```
DataFim DATETIME NOT NULL,  
  
Funcionariold INT NOT NULL,  
  
CONSTRAINT Funcionariold FOREIGN KEY (Funcionariold)  
  
REFERENCES Funcionarios (Id)  
  
ON DELETE CASCADE ON UPDATE CASCADE,  
  
CONSTRAINT DatasFerias CHECK (DataFim > DataInicio)  
);
```

```
INSERT INTO Cargos(Titulo, Descricao, SalarioBase) VALUES
```

```
('Gerente de Projetos', 'Responsavel por gerenciar equipes e projetos de TI',  
12500.00),
```

```
('Desenvolvedor Sênior', 'Desenvolve sistemas complexos e lidera tecnicamente a  
equipe', 8500.00),
```

```
('Analista de Sistemas', 'Analisa requisitos e propõe soluções de software',  
6500.00),
```

```
('Desenvolvedor Pleno', 'Implementa funcionalidades e corrige bugs em sistemas',  
5500.00),
```

```
('Desenvolvedor Júnior', 'Auxilia no desenvolvimento de software sob supervisão',  
3200.00),
```

```
('Estagiário de TI', 'Apoia a equipe de desenvolvimento em tarefas básicas',  
2800.00),
```

```
('DBA', 'Administra e otimiza bancos de dados', 7800.00),
```

```
('Arquiteto de Software', 'Projeta a estrutura de sistemas complexos', 15000.00),
```

```
('Scrum Master', 'Facilita processos ágeis e remove impedimentos', 9500.00),
```

('UX/UI Designer', 'Desenvolve interfaces e experi ncias de usu rio', 6200.00);

INSERT INTO Setores (Nome, Descricao) VALUES

('Administrativo', 'Setor respons vel pela gest o administrativa da empresa'),

('Financeiro', 'Setor respons vel pela gest o financeira e cont bil'),

('Recursos Humanos', 'Setor respons vel pela gest o de pessoas e departamento
pessoal'),

('TI', 'Setor respons vel pela infraestrutura de tecnologia e sistemas'),

('Marketing', 'Setor respons vel pela comunica o, publicidade e rela es p blicas'),

('Produ o', 'Setor respons vel pela fabrica o dos produtos');

INSERT INTO Horarios (HorarioInicio, IntervaloInicio, IntervaloFim, HorarioFim)
VALUES

(8, 12, 13, 17),

(8, 12, 14, 18), (8,

13, 14, 17), (9,

12, 13, 18), (9,

12, 14, 19), (9,

13, 14, 18),

(10, 12, 13, 19), (10,

12, 14, 20), (10, 13,

14, 19);

```
INSERT INTO Funcionarios (Nome, CPF, DataNascimento, Email, Telefone,  
Endereco, DataContratacao, Salario, Ativo, CargosId, SetoresId, HorariosId)  
VALUES
```

```
('Ana Clara Souza', '12345678901', '1990-03-22T00:00:00',
```

```
'ana.souza1@empresa.com', '11987654321', 'Av. Paulista, 1000 - S o Paulo/SP',
```

```
'2015-04-10T09:00:00', 8500.00, 1, 2, 4, 1),
```

```
('Bruno Henrique Lima', '23456789012', '1985-06-12T00:00:00',
```

```
'bruno.lima@empresa.com', '11976543210', 'Rua das Laranjeiras, 245 - Rio de
```

```
Janeiro/RJ', '2017-07-05T09:00:00', 6500.00, 1, 3, 1, 2),
```

```
('Camila Ribeiro', '34567890123', '1992-10-30T00:00:00',
```

```
'camila.ribeiro@empresa.com', '21987654321', 'Rua XV de Novembro, 134 -
```

```
Curitiba/PR', '2018-01-15T09:00:00', 3200.00, 1, 5, 6, 3),
```

```
('Diego Ferreira', '45678901234', '1988-12-11T00:00:00',
```

```
'diego.ferreira@empresa.com', '11991234567', 'Rua Independ ncia, 45 - Porto
```

```
Alegre/RS', '2016-09-01T09:00:00', 5500.00, 1, 4, 4, 1),
```

```
('Eduarda Costa', '56789012345', '1995-07-19T00:00:00',
```

```
'eduarda.costa@empresa.com', '11999887766', 'Av. das Am ricas, 2222 - Rio de
```

```
Janeiro/RJ', '2019-11-11T09:00:00', 2800.00, 1, 6, 1, 5),
```

```
('Felipe Martins', '67890123456', '1983-04-03T00:00:00',
```

```
'felipe.martins@empresa.com', '11988776655', 'Rua Sete de Setembro, 700 -
```

Salvador/BA', '2014-06-22T09:00:00', 7800.00, 1, 7, 4, 4),
('Gabriela Rocha', '78901234567', '1991-01-27T00:00:00',
'gabriela.rocha@empresa.com', '11977665544', 'Rua dos Andradas, 560 - Porto
Alegre/RS', '2020-02-20T09:00:00', 8500.00, 1, 2, 3, 2),
('Henrique Oliveira', '89012345678', '1987-05-09T00:00:00',
'henrique.oliveira@empresa.com', '11966554433', 'Av. Brasil, 321 - Recife/PE',
'2013-12-10T09:00:00', 6200.00, 1, 10, 5, 3),
('Isabela Fernandes', '90123456789', '1994-11-14T00:00:00',
'isabela.fernandes@empresa.com', '11955443322', 'Rua das Palmeiras, 89 -
Belo Horizonte/MG', '2021-01-05T09:00:00', 9500.00, 1, 9, 3, 6),
('Jo o Pedro Lima', '01234567890', '1986-08-21T00:00:00',
'joao.pedro@empresa.com', '11944332211', 'Rua Direita, 222 - Campinas/SP',
'2012-03-18T09:00:00', 15000.00, 1, 8, 4, 7),
('Karla Beatriz Mendes', '10293847561', '1993-03-10T00:00:00',
'karla.mendes@empresa.com', '11933221100', 'Rua Aurora, 330 - S o
Paulo/SP', '2020-05-11T09:00:00', 6200.00, 1, 10, 5, 8),
('Leonardo Nunes', '11223344556', '1989-07-04T00:00:00',
'leonardo.nunes@empresa.com', '11999889900', 'Av. da Liberdade, 550 -
Campinas/SP', '2015-09-23T09:00:00', 7800.00, 1, 7, 1, 6),
('Marina Castro', '66778899001', '1990-09-15T00:00:00',
'marina.castro@empresa.com', '21999887766', 'Rua S o Jo o, 78 - S o

Paulo/SP', '2018-10-10T09:00:00', 8500.00, 1, 2, 4, 1),
('Nat lia Vieira', '55667788990', '1992-12-02T00:00:00',
'natalia.vieira@empresa.com', '11987651234', 'Rua Par , 45 - Salvador/BA',
'2017-01-30T09:00:00', 3200.00, 1, 5, 6, 9),
('Ot vio Ramos', '44556677889', '1984-02-18T00:00:00',
'otavio.ramos@empresa.com', '11988776543', 'Rua Goi s, 90 - Goi nia/GO',
'2013-08-12T09:00:00', 9500.00, 1, 9, 2, 7),
('Paula Martins', '99887766554', '1995-05-25T00:00:00',
'paula.martins@empresa.com', '11977665432', 'Av. Ipiranga, 101 - S o
Paulo/SP', '2021-03-05T09:00:00', 5500.00, 1, 4, 5, 2),
('Rafael Souza', '88776655443', '1987-11-29T00:00:00',
'rafael.souza@empresa.com', '11966554321', 'Rua Pernambuco, 17 - Recife/PE',
'2016-07-20T09:00:00', 12500.00, 1, 1, 1, 5),
('Sabrina Alves', '77665544332', '1991-06-30T00:00:00',
'sabrina.alves@empresa.com', '11955443210', 'Rua Brasil, 48 - Curitiba/PR',
'2019-09-01T09:00:00', 2800.00, 1, 6, 2, 4),
('Thiago Moura', '66554433221', '1982-04-17T00:00:00',
'thiago.moura@empresa.com', '11944332109', 'Av. Independencia, 1100 -
Fortaleza/CE', '2011-12-15T09:00:00', 15000.00, 1, 8, 4, 3),
('Vanessa Duarte', '55443322110', '1989-08-06T00:00:00',
'vanessa.duarte@empresa.com', '11933221098', 'Rua Amazonas, 132 - Belo
Horizonte/MG', '2014-11-25T09:00:00', 6200.00, 1, 10, 3, 6),

('Wesley Ara jo', '44332211009', '1990-01-01T00:00:00',
'wesley.araujo@empresa.com', '11922110987', 'Rua Maranh o, 77 - Sao
Luis/MA', '2017-02-14T09:00:00', 7800.00, 1, 7, 5, 1),
('Yasmin Oliveira', '33221100998', '1993-11-18T00:00:00',
'yasmin.oliveira@empresa.com', '11911099876', 'Av. Kennedy, 202 -
Campinas/SP', '2020-06-18T09:00:00', 5500.00, 1, 4, 6, 7),
('Z lia Campos', '22110099887', '1988-03-27T00:00:00',
'zelia.campos@empresa.com', '11900988765', 'Rua das Hortas, 18 - Florian
polis/SC', '2012-09-19T09:00:00', 8500.00, 1, 2, 4, 5),
('Andr Luiz Mendes', '11009988776', '1981-07-08T00:00:00',
'andre.mendes@empresa.com', '11899876543', 'Av. Tiradentes, 320 - S o
Paulo/SP', '2010-01-08T09:00:00', 12500.00, 1, 1, 1, 3),
('Bianca Rocha', '10998877665', '1994-04-24T00:00:00',
'bianca.rocha@empresa.com', '11988765432', 'Rua Bahia, 12 - Fortaleza/CE',
'2022-04-01T09:00:00', 3200.00, 1, 5, 3, 2),
('Caio Cesar Pinto', '99887766553', '1986-02-10T00:00:00',
'caio.pinto@empresa.com', '11977654321', 'Rua Rio Branco, 40 - Vit ria/ES',
'2014-10-12T09:00:00', 9500.00, 1, 9, 2, 9),
('Daniela Lopes', '88776655442', '1990-10-11T00:00:00',
'daniela.lopes@empresa.com', '11966543210', 'Rua Santo Ant nio, 95 - S o
Paulo/SP', '2016-06-01T09:00:00', 6500.00, 1, 3, 1, 4),

('Eduardo Matos', '77665544331', '1983-09-09T00:00:00',

'eduardo.matos@empresa.com', '11955432109', 'Av. Bento Gon alves, 700 -
Porto Alegre/RS', '2013-03-20T09:00:00', 15000.00, 1, 8, 4, 8),

('Fernanda Braga', '66554433220', '1992-06-05T00:00:00',

'fernanda.braga@empresa.com', '11944321098', 'Rua Cear , 88 - Teresina/PI',

'2021-07-07T09:00:00', 2800.00, 1, 6, 6, 3),

('Gustavo Ramos', '55443322109', '1985-01-23T00:00:00',

'gustavo.ramos@empresa.com', '11933210987', 'Rua das Gaivotas, 101 -

Natal/RN', '2011-08-10T09:00:00', 7800.00, 1, 7, 5, 2);

-- Ferias de 30 dias consecutivos

INSERT INTO Ferias (DataInicio, DataFim, Funcionariold) VALUES

('2025-05-23T00:00:00', '2025-06-21T23:59:59', 1),

('2025-05-23T00:00:00', '2025-06-21T23:59:59', 2),

('2025-06-07T00:00:00', '2025-07-06T23:59:59', 3),

('2025-06-07T00:00:00', '2025-07-06T23:59:59', 4),

('2025-06-22T00:00:00', '2025-07-21T23:59:59', 5),

('2025-06-22T00:00:00', '2025-07-21T23:59:59', 6),

('2025-07-07T00:00:00', '2025-08-05T23:59:59', 7),

('2025-07-07T00:00:00', '2025-08-05T23:59:59', 8),

('2025-07-22T00:00:00', '2025-08-20T23:59:59', 9),

('2025-07-22T00:00:00', '2025-08-20T23:59:59', 10);

-- Ferias fracionadas: 15 + 15

INSERT INTO Ferias (DataInicio, DataFim, Funcionarioid) VALUES

('2025-08-06T00:00:00', '2025-08-20T23:59:59', 11),

('2025-11-01T00:00:00', '2025-11-15T23:59:59', 11),

('2025-08-06T00:00:00', '2025-08-20T23:59:59', 12),

('2025-11-01T00:00:00', '2025-11-15T23:59:59', 12),

('2025-08-21T00:00:00', '2025-09-04T23:59:59', 13),

('2025-11-16T00:00:00', '2025-11-30T23:59:59', 13),

('2025-08-21T00:00:00', '2025-09-04T23:59:59', 14),

('2025-11-16T00:00:00', '2025-11-30T23:59:59', 14),

('2025-09-05T00:00:00', '2025-09-19T23:59:59', 15),

('2025-12-01T00:00:00', '2025-12-15T23:59:59', 15), ('2025-09-05T00:00:00',
'2025-09-19T23:59:59', 16),

('2025-12-01T00:00:00', '2025-12-15T23:59:59', 16),

('2025-09-20T00:00:00', '2025-10-04T23:59:59', 17),

('2025-12-16T00:00:00', '2025-12-30T23:59:59', 17),

('2025-09-20T00:00:00', '2025-10-04T23:59:59', 18),

('2025-12-16T00:00:00', '2025-12-30T23:59:59', 18),

('2025-10-05T00:00:00', '2025-10-19T23:59:59', 19),

('2025-12-01T00:00:00', '2025-12-15T23:59:59', 19),
('2025-10-05T00:00:00', '2025-10-19T23:59:59', 20),
('2025-12-01T00:00:00', '2025-12-15T23:59:59', 20);

-- Ferias fracionadas: 10 + 10 + 10

INSERT INTO Ferias (DataInicio, DataFim, Funcionariold) VALUES

('2025-10-20T00:00:00', '2025-10-29T23:59:59', 21),
('2025-11-01T00:00:00', '2025-11-10T23:59:59', 21),
('2025-12-01T00:00:00', '2025-12-10T23:59:59', 21),
('2025-10-20T00:00:00', '2025-10-29T23:59:59', 22),
('2025-11-01T00:00:00', '2025-11-10T23:59:59', 22),
('2025-12-01T00:00:00', '2025-12-10T23:59:59', 22),
('2025-10-30T00:00:00', '2025-11-08T23:59:59', 23),
('2025-11-11T00:00:00', '2025-11-20T23:59:59', 23),
('2025-12-11T00:00:00', '2025-12-20T23:59:59', 23), ('2025-10-30T00:00:00',
'2025-11-08T23:59:59', 24),
('2025-11-11T00:00:00', '2025-11-20T23:59:59', 24),
('2025-12-11T00:00:00', '2025-12-20T23:59:59', 24),
('2025-11-09T00:00:00', '2025-11-18T23:59:59', 25),
('2025-11-21T00:00:00', '2025-11-30T23:59:59', 25),
('2025-12-21T00:00:00', '2025-12-30T23:59:59', 25),

('2025-11-09T00:00:00', '2025-11-18T23:59:59', 26),
('2025-11-21T00:00:00', '2025-11-30T23:59:59', 26),
('2025-12-21T00:00:00', '2025-12-30T23:59:59', 26),
('2025-11-19T00:00:00', '2025-11-28T23:59:59', 27),
('2025-12-01T00:00:00', '2025-12-10T23:59:59', 27),
('2025-12-16T00:00:00', '2025-12-25T23:59:59', 27),
('2025-11-19T00:00:00', '2025-11-28T23:59:59', 28),
('2025-12-01T00:00:00', '2025-12-10T23:59:59', 28),
('2025-12-16T00:00:00', '2025-12-25T23:59:59', 28),
('2025-11-29T00:00:00', '2025-12-08T23:59:59', 29),
('2025-12-11T00:00:00', '2025-12-20T23:59:59', 29),
('2025-12-26T00:00:00', '2025-12-31T23:59:59', 29),
('2025-11-29T00:00:00', '2025-12-08T23:59:59', 30),
('2025-12-11T00:00:00', '2025-12-20T23:59:59', 30),
('2025-12-26T00:00:00', '2025-12-31T23:59:59', 30); INSERT INTO
CargosSetores (CargosId, SetoresId) VALUES

(1, 4), (1, 1),

(2, 4), (2, 6), (2, 1),

(3, 4), (3, 2), (3, 1),

(4, 4), (4, 6), (4, 2),

(5, 4), (5, 1), (5, 3),

$(6, 4), (6, 1), (6, 3),$

$(7, 4), (7, 2), (7, 1),$

$(8, 4), (8, 6), (8, 1),$

$(9, 4), (9, 1), (9, 5),$

$(10, 5), (10, 4), (10, 3),$

$(1, 3);$