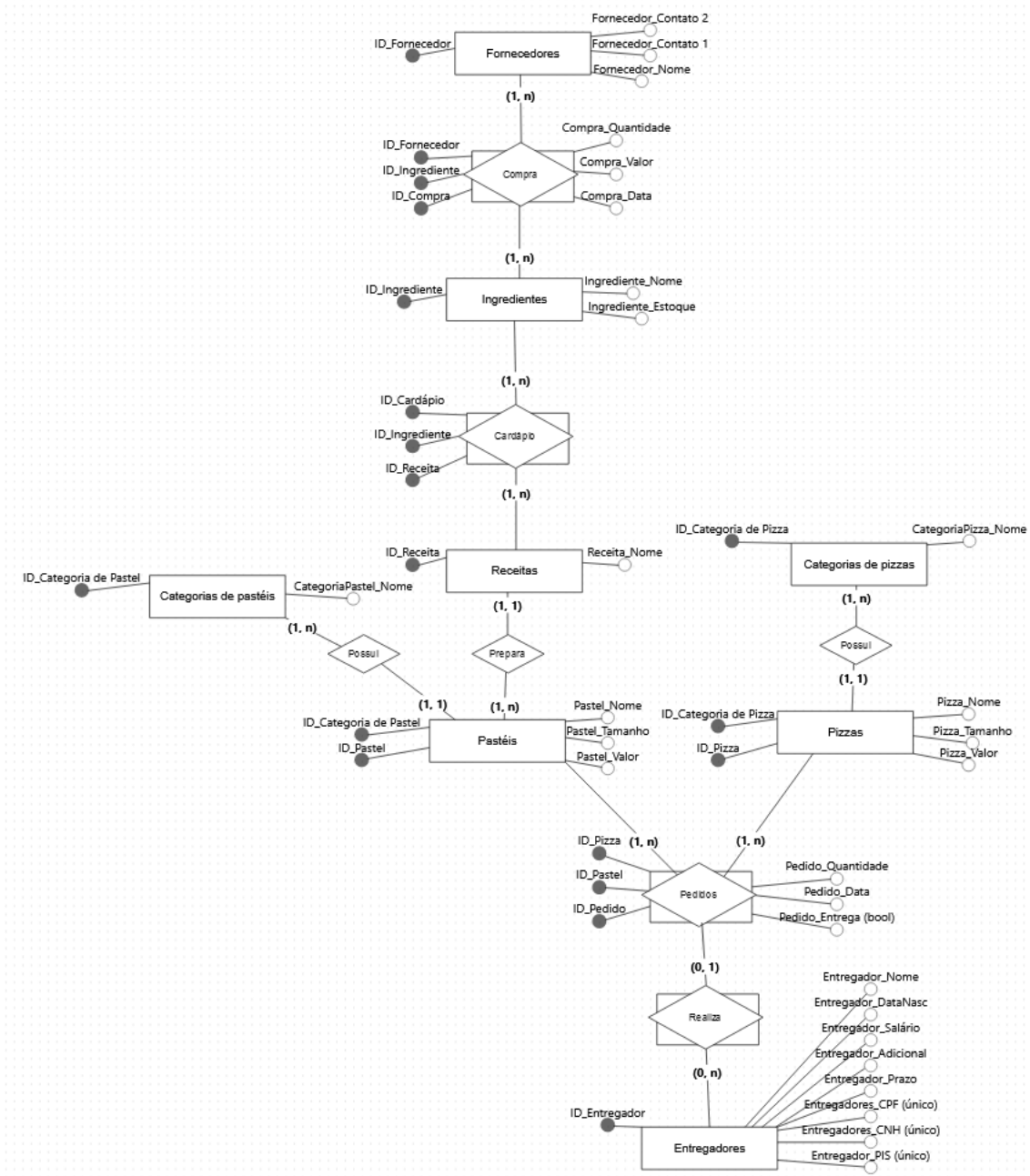
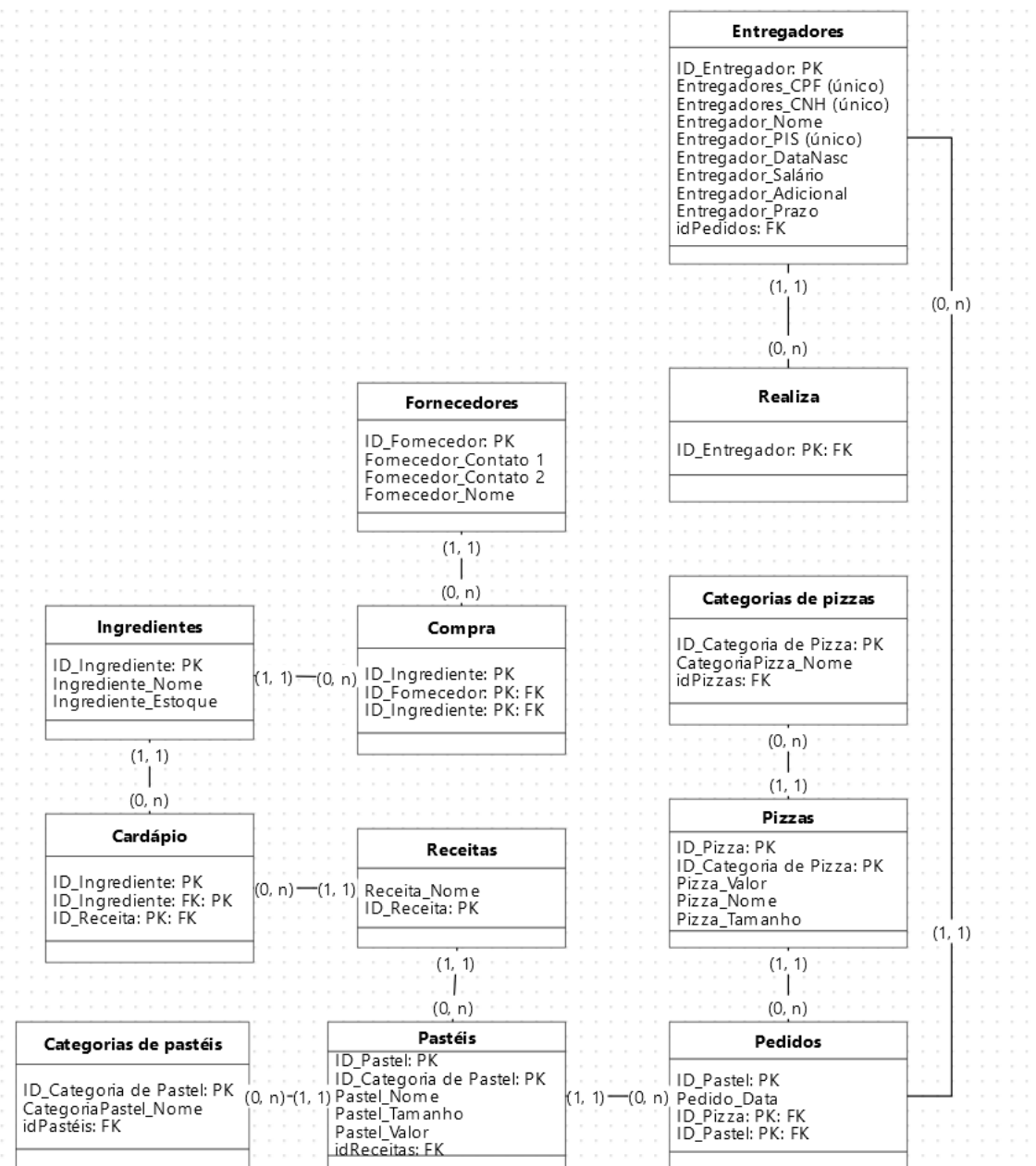


Conceitual:



Lógico:



Código:

```

SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;

SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0;

SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_D
ATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';
  
```

```
CREATE SCHEMA IF NOT EXISTS `DB_Senhor_dos_Pasteis` DEFAULT CHARACTER SET utf8 ; USE
`DB_Senhor_dos_Pasteis` ;
```

```
DROP TABLE IF EXISTS `tb_fornecedores`;
CREATE TABLE `tb_fornecedores` (
  `ID_fornecedor` int NOT NULL AUTO_INCREMENT,
  `col_contato1` varchar(45) NOT NULL,
  `col_contato2` varchar(45) NOT NULL,
  `col_descricao` varchar(45) NOT NULL,
  PRIMARY KEY (`ID_fornecedor`),
  UNIQUE KEY `ID_fornecedor_UNIQUE` (`ID_fornecedor`),
  UNIQUE KEY `col_contato1_UNIQUE` (`col_contato1`),
  UNIQUE KEY `col_contato2_UNIQUE` (`col_contato2`)
);
```

```
DROP TABLE IF EXISTS `tb_ingredientes`;
CREATE TABLE `tb_ingredientes` (
  `ID_ingredient` int NOT NULL AUTO_INCREMENT,
  `col_descricao` varchar(50) NOT NULL,
  `col_estoque` int NOT NULL,
  PRIMARY KEY (`ID_ingredient`),
  UNIQUE KEY `ID_ingredient_UNIQUE` (`ID_ingredient`),
  UNIQUE KEY `col_descricao_UNIQUE` (`col_descricao`)
);
```

```
DROP TABLE IF EXISTS `tb_compras`;
CREATE TABLE `tb_compras` (
  `ID_compra` int NOT NULL AUTO_INCREMENT,
  `col_compra_valor` decimal(6,2) NOT NULL,
  `col_quantidade` int NOT NULL,
  `col_data` date NOT NULL,
```

```

`fk_ID_fornecedor` int NOT NULL,
`fk_ID_ingredientes` int NOT NULL,
PRIMARY KEY (`ID_compra`),
UNIQUE KEY `ID_compra_UNIQUE` (`ID_compra`),
KEY `fk_ID_fornecedor_idx` (`fk_ID_fornecedor`),
KEY `fk_ID_ingredientes_idx` (`fk_ID_ingredientes`),
CONSTRAINT `fk_ID_fornecedor` FOREIGN KEY (`fk_ID_fornecedor`) REFERENCES
`tb_fornecedores` (`ID_fornecedor`),
CONSTRAINT `fk_ID_ingredientes` FOREIGN KEY (`fk_ID_ingredientes`) REFERENCES
`tb_ingredientes` (`ID_ingredientes`)
);

```

```

DROP TABLE IF EXISTS `tb_receitas`;
CREATE TABLE `tb_receitas` (
`ID_receita` int NOT NULL AUTO_INCREMENT,
`col_descricao` varchar(50) NOT NULL,
PRIMARY KEY (`ID_receita`),
UNIQUE KEY `ID_receita_UNIQUE` (`ID_receita`),
UNIQUE KEY `col_descricao_UNIQUE` (`col_descricao`)
);

```

```

DROP TABLE IF EXISTS `tb_cardapios`;
CREATE TABLE `tb_cardapios` (
`ID_cardapio` int NOT NULL AUTO_INCREMENT,
`fk_ID_receita` int NOT NULL,
`fk_ID_ingredientes` int NOT NULL,
PRIMARY KEY (`ID_cardapio`,`fk_ID_receita`,`fk_ID_ingredientes`),
KEY `fk_tb_cardapios_tb_receitas1_idx` (`fk_ID_receita`),
KEY `fk_tb_cardapios_tb_ingredientes1_idx` (`fk_ID_ingredientes`),
CONSTRAINT `fk_tb_cardapios_tb_ingredientes1` FOREIGN KEY (`fk_ID_ingredientes`)
REFERENCES `tb_ingredientes` (`ID_ingredientes`),

```

```
CONSTRAINT `fk_tb_cardapios_tb_receitas1` FOREIGN KEY (`fk_ID_receita`) REFERENCES  
`tb_receitas` (`ID_receita`)  
)
```

```
DROP TABLE IF EXISTS `tb_categorias_pasteis`;  
CREATE TABLE `tb_categorias_pasteis` (  
  `ID_categoria_pa` int NOT NULL AUTO_INCREMENT,  
  `col_descricao` varchar(50) NOT NULL,  
  PRIMARY KEY (`ID_categoria_pa`),  
  UNIQUE KEY `co_descricao_UNIQUE` (`col_descricao`)  
);
```

```
DROP TABLE IF EXISTS `tb_categorias_pizzas`;  
CREATE TABLE `tb_categorias_pizzas` (  
  `ID_categoria_pi` int NOT NULL AUTO_INCREMENT,  
  `col_descricao` varchar(50) NOT NULL,  
  PRIMARY KEY (`ID_categoria_pi`),  
  UNIQUE KEY `ID_categoria_p_UNIQUE` (`ID_categoria_pi`)  
);
```

```
DROP TABLE IF EXISTS `tb_pasteis`;  
CREATE TABLE `tb_pasteis` (  
  `ID_pastel` int NOT NULL AUTO_INCREMENT,  
  `col_descricao` varchar(50) NOT NULL,  
  `col_tamanho` tinyint(1) NOT NULL,  
  `col_valor` decimal(4,2) NOT NULL,  
  `fk_ID_receita` int NOT NULL,  
  `fk_ID_categoria_pa` int NOT NULL,  
  PRIMARY KEY (`ID_pastel`),  
  UNIQUE KEY `ID_pasteis_UNIQUE` (`ID_pastel`),  
  KEY `fk_tb_pasteis_tb_receitas1_idx` (`fk_ID_receita`),
```

```

KEY `fk_tb_pasteis_tb_categorias_pasteis1_idx` (`fk_ID_categoria_pa`),

CONSTRAINT `fk_tb_pasteis_tb_categorias_pasteis1` FOREIGN KEY (`fk_ID_categoria_pa`)
REFERENCES `tb_categorias_pasteis` (`ID_categoria_pa`),

CONSTRAINT `fk_tb_pasteis_tb_receitas1` FOREIGN KEY (`fk_ID_receita`) REFERENCES
`tb_receitas` (`ID_receita`)

);

```

```

DROP TABLE IF EXISTS `tb_pizzas`;

CREATE TABLE `tb_pizzas` (
  `ID_pizza` int NOT NULL AUTO_INCREMENT,
  `col_descricao` varchar(50) NOT NULL,
  `col_tamanho` char(1) NOT NULL,
  `col_valor` decimal(4,2) NOT NULL,
  `fk_ID_receita` int NOT NULL,
  `fk_ID_categoria_pi` int NOT NULL,
  PRIMARY KEY (`ID_pizza`),
  UNIQUE KEY `ID_pasteis_UNIQUE` (`ID_pizza`),
  KEY `fk_tb_pizzas_tb_receitas1_idx` (`fk_ID_receita`),
  KEY `fk_tb_pizzas_tb_categorias_pizzas1_idx` (`fk_ID_categoria_pi`),
  CONSTRAINT `fk_tb_pizzas_tb_categorias_pizzas1` FOREIGN KEY (`fk_ID_categoria_pi`)
REFERENCES `tb_categorias_pizzas` (`ID_categoria_pi`),
  CONSTRAINT `fk_tb_pizzas_tb_receitas1` FOREIGN KEY (`fk_ID_receita`) REFERENCES
`tb_receitas` (`ID_receita`)

);

```

```

DROP TABLE IF EXISTS `tb_pedidos`;

CREATE TABLE `tb_pedidos` (
  `ID_pedido` int NOT NULL AUTO_INCREMENT,
  `col_data` datetime NOT NULL,
  `col_entrega` tinyint NOT NULL,
  `fk_ID_fila` int NOT NULL,
  `fk_ID_cliente` int NOT NULL,

```

```

PRIMARY KEY (`ID_pedido`),
UNIQUE KEY `ID_fila_UNIQUE` (`ID_pedido`),
KEY `fk_ID_fila_idx` (`fk_ID_fila`),
KEY `fk_ID_cliente_idx` (`fk_ID_cliente`),
CONSTRAINT `fk_ID_cliente` FOREIGN KEY (`fk_ID_cliente`) REFERENCES `tb_clientes`
(`ID_cliente`),
CONSTRAINT `fk_ID_fila` FOREIGN KEY (`fk_ID_fila`) REFERENCES `tb_fila` (`ID_fila`)
);

```

```

DROP TABLE IF EXISTS `tb_fila`;
CREATE TABLE `tb_fila` (
  `ID_fila` int NOT NULL AUTO_INCREMENT,
  `col_quantidade` int NOT NULL,
  `col_entrega` tinyint NOT NULL,
  `fk_ID_papel` int DEFAULT NULL,
  `fk_ID_pizza` int DEFAULT NULL,
  PRIMARY KEY (`ID_fila`),
  UNIQUE KEY `ID_pedido_UNIQUE` (`ID_fila`),
  KEY `fk_tb_pedidos_tb_papeis1_idx` (`fk_ID_papel`),
  KEY `fk_tb_pedidos_tb_pizzas1_idx` (`fk_ID_pizza`),
  CONSTRAINT `fk_ID_papel` FOREIGN KEY (`fk_ID_papel`) REFERENCES `tb_papeis`
(`ID_papel`),
  CONSTRAINT `fk_ID_pizza` FOREIGN KEY (`fk_ID_pizza`) REFERENCES `tb_pizzas` (`ID_pizza`)
);

```

```

DROP TABLE IF EXISTS `tb_entregadores`;
CREATE TABLE `tb_entregadores` (
  `ID_entregador` int NOT NULL AUTO_INCREMENT,
  `col_nome` varchar(100) NOT NULL,
  `col_data_nasc` date NOT NULL,
  `col_salario` decimal(6,2) NOT NULL,

```

```

`col_adicional` int NOT NULL,
`col_prazo` time NOT NULL,
`col_cpf` bigint NOT NULL,
`col_cnh` bigint NOT NULL,
`col_clt` bigint NOT NULL,
PRIMARY KEY (`ID_entregador`),
UNIQUE KEY `ID_entregador_UNIQUE` (`ID_entregador`),
UNIQUE KEY `col_pis_UNIQUE` (`col_clt`),
UNIQUE KEY `col_cnh_UNIQUE` (`col_cnh`),
UNIQUE KEY `col_cpf_UNIQUE` (`col_cpf`)
);

```

```

DROP TABLE IF EXISTS `tb_clientes`;
CREATE TABLE `tb_clientes` (
  `ID_cliente` int NOT NULL,
  `col_nome` varchar(45) NOT NULL,
  `col_cpf` varchar(45) DEFAULT NULL,
  `col_telefofo1` int NOT NULL,
  `col_telefofo2` int DEFAULT NULL,
  PRIMARY KEY (`ID_cliente`),
  UNIQUE KEY `ID_cliente_UNIQUE` (`ID_cliente`),
  UNIQUE KEY `col_telefofo1_UNIQUE` (`col_telefofo1`),
  UNIQUE KEY `col_cpf_UNIQUE` (`col_cpf`),
  UNIQUE KEY `col_telefofo2_UNIQUE` (`col_telefofo2`)
);

```

```

DROP TABLE IF EXISTS `tb_entregas`;
CREATE TABLE `tb_entregas` (
  `ID_entrega` int NOT NULL AUTO_INCREMENT, `col_endereco` varchar(45) NOT NULL,
  `col_saida` time NOT NULL,
  `col_entregue` time NOT NULL,

```



```

`fk_ID_pedido` int NOT NULL,
`fk_ID_entregador` int NOT NULL,
`fk_ID_cliente` int NOT NULL,
PRIMARY KEY (`ID_entrega`),
UNIQUE KEY `ID_entrega_UNIQUE` (`ID_entrega`),
KEY `fk_tb_entregas_tb_pedidos_idx` (`fk_ID_pedido`),
KEY `fk_tb_entregas_tb_entregadores1_idx` (`fk_ID_entregador`),
KEY `fk_ID_cliente_idx` (`fk_ID_cliente`),
CONSTRAINT `fk_tb_entregas_tb_clientes` FOREIGN KEY (`fk_ID_cliente`) REFERENCES
`tb_clientes` (`ID_cliente`),
CONSTRAINT `fk_tb_entregas_tb_entregadores1` FOREIGN KEY (`fk_ID_entregador`)
REFERENCES `tb_entregadores` (`ID_entregador`),
CONSTRAINT `fk_tb_entregas_tb_pedidos` FOREIGN KEY (`fk_ID_pedido`) REFERENCES
`tb_fila` (`ID_fila`)
);

```

```
ENGINE = InnoDB;
```

```
SET SQL_MODE=@OLD_SQL_MODE;
```

```
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
```

```
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
```

```
SET FOREIGN_KEY_CHECKS = 0;
```

```
INSERT INTO tb_fornecedores(col_descricao,col_contato1,col_contato2)
```

```
VALUES
```

```
('Chocolates Wonka',47912345678,4788445622),
```

```
('Hortifruti Tio Zico',47944557585,4788996459),
```

```
('Do Fundação Laticínios',4744513678,47963497458),
```

```
('Rei do Gado LTDA',4752471964,4712947563),
```

```
('Granja da Vovózona',47948741374,4778941294),
```

```
('Fazenda do Tio Harry',4774136485,4797854365);
```

```
INSERT INTO tb_ingredientes(col_descricao,col_estoque)
```

```
VALUES
```

```
('Chocolate preto',040),
```

```
('Morango',190),
```

```
('Calabresa',200),
```

```
('Frango',150),
```

```
('Champignon',100);
```

```
INSERT INTO
```

```
tb_compras(fk_ID_fornecedor,fk_ID_ingrediente,col_quantidade,col_compra_valor,col_data)
```

```
VALUES
```

```
(1,1,150,314.79,'2024-01-01'),
```

```
(2,2,200,462.64,'2024-01-03'),
```

```
(3,3,050,657.55,'2024-01-07'),
```

```
(4,4,300,549.48,'2024-01-09'),
```

```
(6,5,250,344.32,'2024-01-11');
```

```
INSERT INTO tb_receitas(col_descricao)
```

```
VALUES
```

```
('Simplesmente Mordor'),
```

```
('Onze Aneis'),
```

```
('Martelo de Celembrimbor'),
```

```
('Espada de Talion'),
```

```
('Favorita do Gandalf');
```

```
INSERT INTO tb_cardapios(fk_ID_receita,fk_ID_ingrediente)
```

```
VALUES
```

```
(1,1),
```

```
(2,3),
```

(3,4),

(4,2),

(5,5);

```
INSERT INTO tb_categorias_pasteis(col_descricao)
```

```
VALUES
```

```
('Frito'),
```

```
('Assado'),
```

```
('Vegano');
```

```
INSERT INTO tb_categorias_pizzas(col_descricao)
```

```
VALUES
```

```
('Salgada'),
```

```
('Doce');
```

```
INSERT INTO
```

```
tb_pasteis(col_descricao,col_tamanho,col_valor,fk_ID_receita,fk_ID_categoria_pa)
```

```
VALUES
```

```
('O poder do martelo usado para forjar o Um Anel.',2,012.99,3,2),
```

```
('A espada do lendário Talion, o Patrulheiro.',2,012.99,4,3);
```

```
INSERT INTO tb_pizzas(col_descricao,col_tamanho,col_valor,fk_ID_receita,fk_ID_categoria_pi)
```

```
VALUES
```

```
('Alguém que simplesmente ENTRA em Mordor.',5,093.99,1,2),
```

```
('Feito da carne dos inimigos de Morgoth.',3,047.99,2,1),
```

```
('Bom dia!','M',039.99,5,1);
```

```
INSERT INTO tb_fila(fk_ID_pastel,fk_ID_pizza,col_quantidade,col_entrega)
```

```
VALUES
```

```
(0,1,01,1),
```

```
(0,2,02,0),
```

```
(0,5,03,1),  
(3,0,04,0),  
(4,0,02,1);
```

```
INSERT INTO tb_pedidos(fk_ID_cliente,fk_ID_fila,col_data,col_entrega)  
VALUES  
(5,1,'2024-02-27 15:30',1),  
(4,2,'2024-02-26 16:55',0),  
(3,3,'2024-02-25 17:45',1),  
(2,4,'2024-02-24 18:55',0),  
(1,5,'2024-02-23 20:00',1);
```

```
INSERT INTO  
tb_entregadores(col_nome,col_data_nasc,col_salario,col_adicional,col_prazo,col_cpf,col_cnh,  
col_clt)  
VALUES  
( 'Robervaldo','1987-04-13',2000.00,00,'30:00',11223344556,101010101010,919191919191),  
( 'Ewandálton','1988-06-15',2000.00,00,'30:00',14725836974,212121212121,929292929292),  
( 'Lumisbertho','1983-09-12',2000.00,00,'30:00',13467985201,323232323232,939393939393),  
( 'Dovaquim de Souza','1320-04-  
07',2000.00,00,'30:00',79846513210,454545454545,949494949494),  
( 'Mário Silva','2001-02-19',2000.00,00,'30:00',99112233778,787878787878,959595959595);
```

```
INSERT INTO  
tb_entregas(fk_ID_pedido,fk_ID_entregador,col_endereco,col_saida,col_entregue)  
VALUES  
(1,5,'Rua das Águas, 116','15:51','16:02'),  
(2,4,'Rua dos Rios, 514','17:13','17:24'),  
(3,3,'Rua dos Riachos, 618','18:04','18:15'),  
(4,2,'Rua das Nascentes, 715','19:12','19:23'),  
(5,1,'Rua das Chachoeiras, 819','20:07','20:18');
```

```
SET FOREIGN_KEY_CHECKS = 1;
```

```
DELIMITER $
```

```
CREATE TRIGGER trg_prazo AFTER INSERT
```

```
ON tb_pedidos
```

```
FOR EACH ROW
```

```
BEGIN
```

```
    SET @novopedido = LAST_INSERT_ID();
```

```
    SET @entregador = (SELECT fk_ID_entregador FROM tb_entregas WHERE fk_ID_pedido =  
@novopedido);
```

```
    SET @saida = (SELECT col_saida FROM tb_entregas WHERE fk_ID_entregador =  
@entregador);
```

```
    SET @novoprazo = CAST(@saida AS TIME) + '00:30';
```

```
END$
```

```
DELIMITER ;
```