

BINV3STMENT ASSISTANT

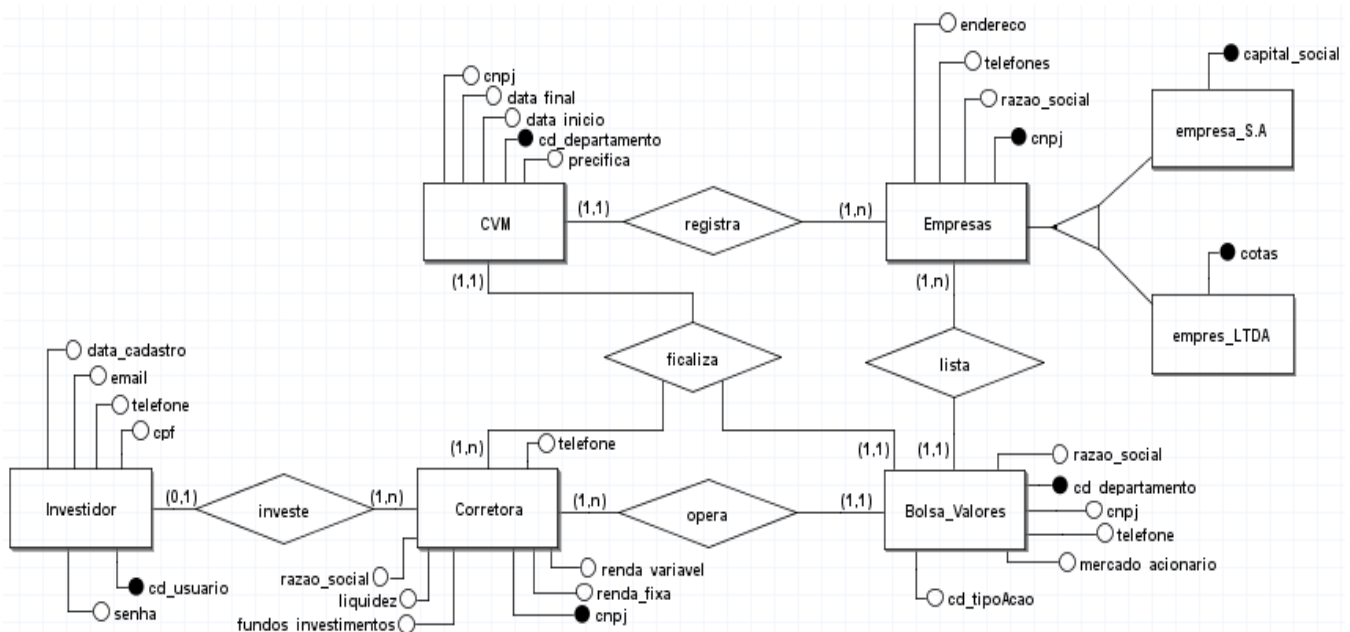
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Mariana Marques Sabio – RM96906

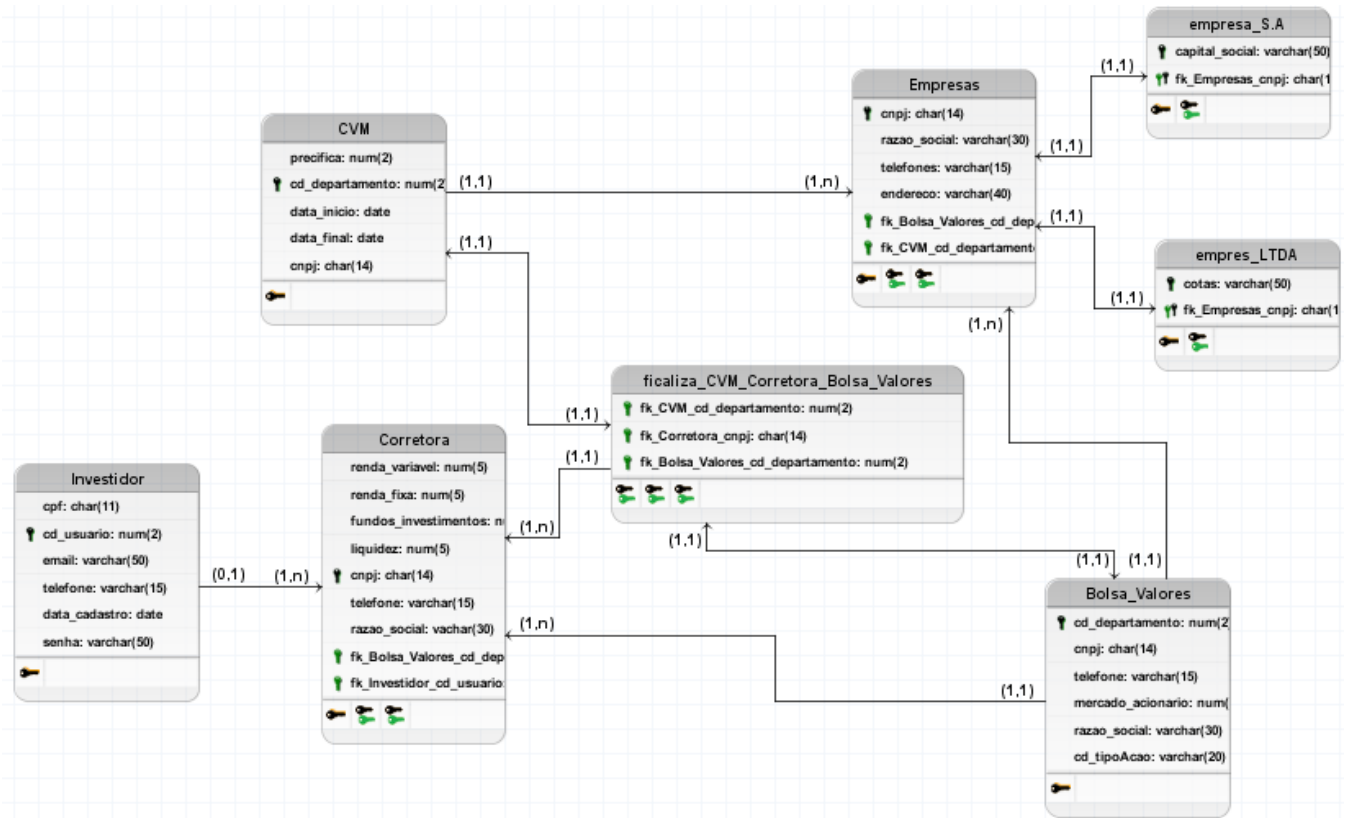
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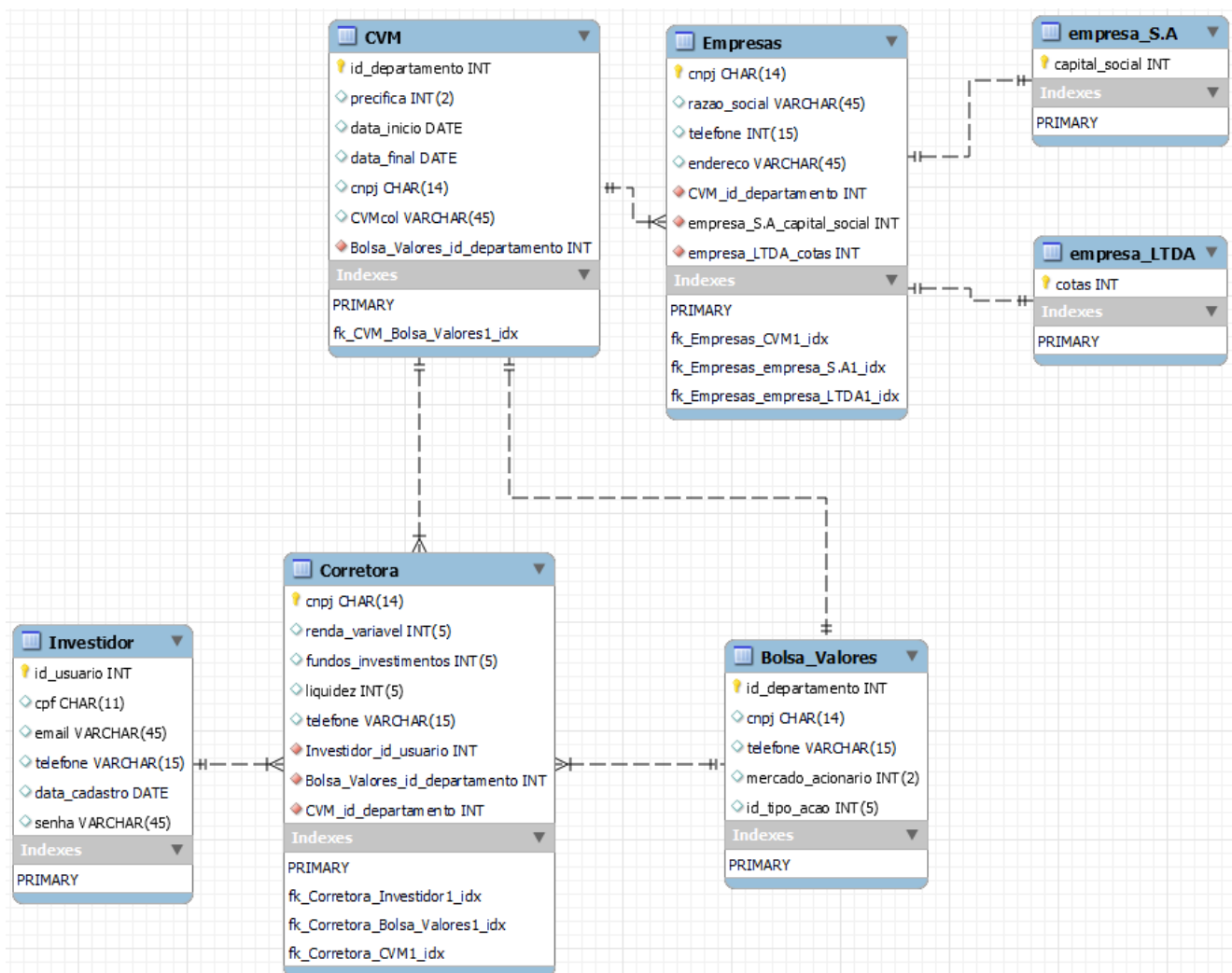
Migração do modelo conceitual



modelo lógico relacional



Criação do modelo físico, implementando os tipos de dados, tamanhos e suas regra



Implementação do desenho do modelo físico

The screenshot displays a database management interface. On the left, the 'SCHEMAS' pane shows a tree view with 'mydb' expanded, listing tables such as 'bolsa_valores', 'corretora', 'cvm', 'empresa ltda', 'empresa_s.a', 'empresas', and 'investidor'. The 'investidor' table is selected. The main query editor shows the SQL statement: `SELECT * FROM mydb.investidor;`. Below the editor, the 'Result Grid' displays the data from the 'investidor' table.

	id_usuario	cpf	email	telefone	data_cadastro	senha
	joão	415...	rm1...	151515...	11/05/2018	9541...
	pedro	498...	rm9...	373434...	12/05/2000	5437...
	lucas	123...	rm2...	819816...	25/12/2006	1561...
	helena	864...	rm5...	151615...	10/11/2037	5615...
	cecilia	811...	rm5...	156156...	07/04/1999	1918...
	leonardo	565...	rm5...	561561...	13/09/2010	4198...
	mariana	515...	rm0...	032313...	10/10/2010	5165...
	matheus	498...	rm9...	561651...	19/02/1993	5156...
	jhonn	454...	rm7...	516544...	18/13/2020	5165...

dicionário de dados

```
1  -- MySQL Workbench Forward Engineering
2  |
3  • SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
4  • SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0;
5  • SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';
6
7  -----
8  -- Schema mydb
9  -----
10
11 -----
12 -- Schema mydb
13 -----
14 • CREATE SCHEMA IF NOT EXISTS `mydb` DEFAULT CHARACTER SET utf8 ;
15 • USE `mydb` ;
16
17 -----
18 -- Table `mydb`.`Investidor`
19 -----
20 • CREATE TABLE IF NOT EXISTS `mydb`.`Investidor` (
21     `id_usuario` INT NOT NULL,
22     `cpf` CHAR(11) NULL,
23     `email` VARCHAR(45) NULL,
24     `telefone` VARCHAR(15) NULL,
25     `data_cadastro` DATE NULL,
26     `senha` VARCHAR(45) NULL,
27     PRIMARY KEY (`id_usuario`))
28 ENGINE = InnoDB;
29
30
31 -----
32 -- Table `mydb`.`Bolsa_Valores`
33 -----
34 • CREATE TABLE IF NOT EXISTS `mydb`.`Bolsa_Valores` (
35     `id_departamento` INT NOT NULL,
36     `cnpj` CHAR(14) NULL,
37     `telefone` VARCHAR(15) NULL,
38     `mercado_acionario` INT(2) NULL,
39     `id_tipo_acao` INT(5) NULL,
40     PRIMARY KEY (`id_departamento`))
41 ENGINE = InnoDB;
```

```

44      -----
45      -- Table `mydb`.`CVM`
46      -----
47  ● ○ CREATE TABLE IF NOT EXISTS `mydb`.`CVM` (
48      `id_departamento` INT NOT NULL,
49      `precifica` INT(2) NULL,
50      `data_inicio` DATE NULL,
51      `data_final` DATE NULL,
52      `cnpj` CHAR(14) NULL,
53      `CVMcol` VARCHAR(45) NULL,
54      `Bolsa_Valores_id_departamento` INT NOT NULL,
55      PRIMARY KEY (`id_departamento`),
56      INDEX `fk_CVM_Bolsa_Valores1_idx` (`Bolsa_Valores_id_departamento` ASC) ,
57      CONSTRAINT `fk_CVM_Bolsa_Valores1`
58          FOREIGN KEY (`Bolsa_Valores_id_departamento`)
59          REFERENCES `mydb`.`Bolsa_Valores` (`id_departamento`)
60          ON DELETE NO ACTION
61          ON UPDATE NO ACTION)
62      ENGINE = InnoDB;

```

```

65  -----
66  -- Table `mydb`.`Corretora`
67  -----
68  ● ○ CREATE TABLE IF NOT EXISTS `mydb`.`Corretora` (
69      `cnpj` CHAR(14) NOT NULL,
70      `renda_variavel` INT(5) NULL,
71      `fundos_investimentos` INT(5) NULL,
72      `liquidez` INT(5) NULL,
73      `telefone` VARCHAR(15) NULL,
74      `Investidor_id_usuario` INT NOT NULL,
75      `Bolsa_Valores_id_departamento` INT NOT NULL,
76      `CVM_id_departamento` INT NOT NULL,
77      PRIMARY KEY (`cnpj`),
78      INDEX `fk_Corretora_Investidor1_idx` (`Investidor_id_usuario` ASC) ,
79      INDEX `fk_Corretora_Bolsa_Valores1_idx` (`Bolsa_Valores_id_departamento` ASC) ,
80      INDEX `fk_Corretora_CVM1_idx` (`CVM_id_departamento` ASC) ,
81      CONSTRAINT `fk_Corretora_Investidor1`
82          FOREIGN KEY (`Investidor_id_usuario`)
83          REFERENCES `mydb`.`Investidor` (`id_usuario`)
84          ON DELETE NO ACTION
85          ON UPDATE NO ACTION,
86      CONSTRAINT `fk_Corretora_Bolsa_Valores1`
87          FOREIGN KEY (`Bolsa_Valores_id_departamento`)
88          REFERENCES `mydb`.`Bolsa_Valores` (`id_departamento`)
89          ON DELETE NO ACTION
90          ON UPDATE NO ACTION,
91      CONSTRAINT `fk_Corretora_CVM1`
92          FOREIGN KEY (`CVM_id_departamento`)
93          REFERENCES `mydb`.`CVM` (`id_departamento`)
94          ON DELETE NO ACTION
95          ON UPDATE NO ACTION)
96  ENGINE = InnoDB;

```

```
99      -- -----
100     -- Table `mydb`.`empresa_S.A`
101     -- -----
102     ● ○ CREATE TABLE IF NOT EXISTS `mydb`.`empresa_S.A` (
103         |     `capital_social` INT NOT NULL,
104         |     PRIMARY KEY (`capital_social`))
105     ENGINE = InnoDB;
106
107
108     -- -----
109     -- Table `mydb`.`empresa_LTDA`
110     -- -----
111     ● ○ CREATE TABLE IF NOT EXISTS `mydb`.`empresa_LTDA` (
112         |     `cotas` INT NOT NULL,
113         |     PRIMARY KEY (`cotas`))
114     ENGINE = InnoDB;
```



```

117  -- -----
118  -- Table `mydb`.`Empresas`
119  -- -----
120  ● CREATE TABLE IF NOT EXISTS `mydb`.`Empresas` (
121      `cnpj` CHAR(14) NOT NULL,
122      `razao_social` VARCHAR(45) NULL,
123      `telefone` INT(15) NULL,
124      `endereco` VARCHAR(45) NULL,
125      `CVM_id_departamento` INT NOT NULL,
126      `empresa_S.A_capital_social` INT NOT NULL,
127      `empresa_LTDA_cotas` INT NOT NULL,
128      PRIMARY KEY (`cnpj`),
129      INDEX `fk_Empresas_CVM1_idx` (`CVM_id_departamento` ASC) ,
130      INDEX `fk_Empresas_empresa_S.A1_idx` (`empresa_S.A_capital_social` ASC) ,
131      INDEX `fk_Empresas_empresa_LTDA1_idx` (`empresa_LTDA_cotas` ASC) ,
132      CONSTRAINT `fk_Empresas_CVM1`
133          FOREIGN KEY (`CVM_id_departamento`)
134          REFERENCES `mydb`.`CVM` (`id_departamento`)
135          ON DELETE NO ACTION
136          ON UPDATE NO ACTION,
137      CONSTRAINT `fk_Empresas_empresa_S.A1`
138          FOREIGN KEY (`empresa_S.A_capital_social`)
139          REFERENCES `mydb`.`empresa_S.A` (`capital_social`)
140          ON DELETE NO ACTION
141          ON UPDATE NO ACTION,
142      CONSTRAINT `fk_Empresas_empresa_LTDA1`
143          FOREIGN KEY (`empresa_LTDA_cotas`)
144          REFERENCES `mydb`.`empresa_LTDA` (`cotas`)
145          ON DELETE NO ACTION
146          ON UPDATE NO ACTION)
147      ENGINE = InnoDB;
148
149
150  ● SET SQL_MODE=@OLD_SQL_MODE;
151  ● SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
152  ● SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
153

```