

# **Esquema Lógico-Relacional**

## **Banco de Dados do**

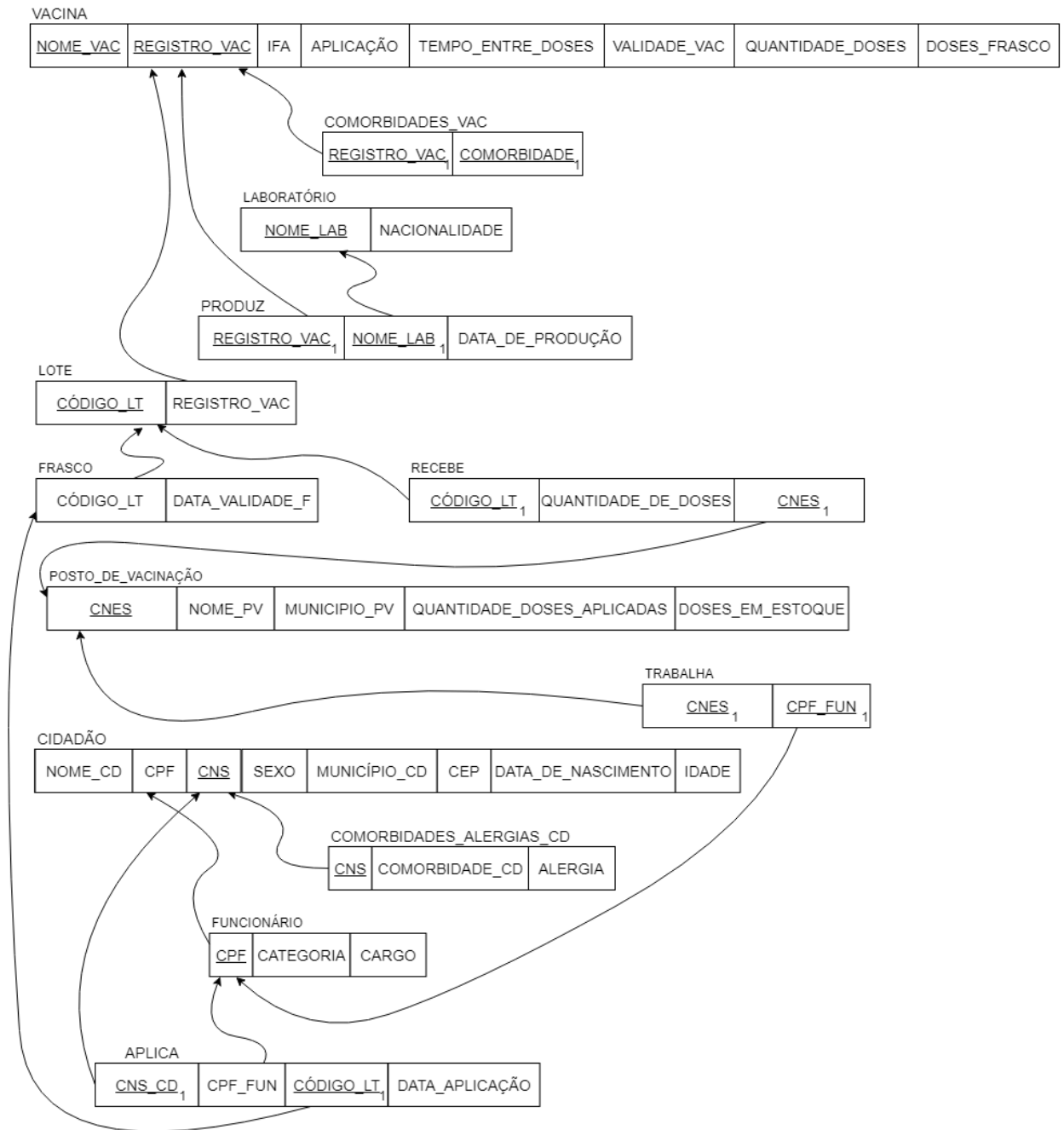
## **Sistema eVacina**

Grupo 19

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# 1. Diagrama Lógico-Relacional



## 2. Comandos DDL-SQL

```
CREATE TABLE VACINA(
    NOME_VAC          VARCHAR(15)      NOT NULL,
    REGISTRO_VAC       VARCHAR(4)       NOT NULL,
    APLICACAO          CHAR(2)          NOT NULL,
    IFA                VARCHAR(10)      NOT NULL,
    QUANTIDADE_DOSES   INT(1)           NOT NULL,
    TEMPO_ENTRE_DOSES  INT(4),
    VALIDADE_VAC        INT(3)          NOT NULL,
    DOSES_FRASCO        INT(2)          NOT NULL,

    ADD CONSTRAINT VACPK
    PRIMARY KEY (REGISTRO_VAC),
    ADD CONSTRAINT VACSK
    UNIQUE (NOME_VAC)
);

CREATE TABLE COMORBIDADES_VAC(
    REGISTRO_VAC       VARCHAR(4)       NOT NULL,
    COMORBIDADE        CHAR(25)         NOT NULL,

    ADD CONSTRAINT COMVACPK
    PRIMARY KEY (REGISTRO_VAC, COMORBIDADE),

    ADD CONSTRAINT COMVACFK
    FOREIGN KEY (REGISTRO_VAC) REFERENCES VACINA(REGISTRO_VAC)
    ON DELETE CASCADE ON UPDATE CASCADE
);

CREATE TABLE LABORATORIO(
    NOME_LAB           VARCHAR(15)      NOT NULL,
    NACIONALIDADE      CHAR(2)         NOT NULL,

    ADD CONSTRAINT LABPK
    PRIMARY KEY (NOME_LAB)
);
```

```

CREATE TABLE PRODUZ(
    REGISTRO_VAC          VARCHAR(4)          NOT NULL,
    NOME_LAB              VARCHAR(15)         NOT NULL,
    DATA_DE_PRODUÇÃO     DATE                NOT NULL,

    ADD CONSTRAINT PRDZPK
    PRIMARY KEY (REGISTRO_VAC, NOME_LAB),

    ADD CONSTRAINT PDRZFK1
    FOREIGN KEY (REGISTRO_VAC) REFERENCES VACINA(REGISTRO_VAC)
    ON DELETE RESTRICT ON UPDATE CASCADE,

    ADD CONSTRAINT PDRZFK2
    FOREIGN KEY (NOME_LAB) REFERENCES LABORATÓRIO(NOME_LAB)
    ON DELETE RESTRICT ON UPDATE CASCADE
);

CREATE TABLE LOTE(
    CODIGO_LT             INT(8)              NOT NULL,
    REGISTRO_VAC          VARCHAR(4)          NOT NULL,

    ADD CONSTRAINT LTPK
    PRIMARY KEY (CODIGO_LT),

    ADD CONSTRAIN LTFK
    FOREIGN KEY (REGISTRO_VAC) REFERENCES VACINA(REGISTRO_VAC)
    ON DELETE RESTRICT ON UPDATE CASCADE
);

CREATE TABLE FRASCO(
    CODIGO_LT             INT(8)              NOT NULL,
    DATA_VALIDADE_F      DATE                NOT NULL
);

CREATE TABLE POSTO_DE_VACINACAO(
    CNES                  INT(7)              NOT NULL,
    NOME_PV               CHAR(15)            NOT NULL,
    MUNICIO_PV            CHAR(30)            NOT NULL,
    QTD_DOSES_APLICADAS   INT(5),
    DOSES_EM_ESTOQUE       INT(5),

    ADD CONSTRAINT PVPK
    PRIMARY KEY (CNES)
);

```

```

CREATE TABLE RECEBE(
    CODIGO_LT          INT(8)          NOT NULL,
    CNES                INT(7)          NOT NULL,
    QUANTIDADE_DOSES   INT(4)          NOT NULL,

    ADD CONSTRAINT RECPK
    PRIMARY KEY (CODIGO_LT, CNES),

    ADD CONSTRAINT RECFK1
    FOREIGN KEY (CODIGO_LT) REFERENCES LOTE(CODIGO_LT)
        ON DELETE RESTRICT ON UPDATE CASCADE,

    ADD CONSTRAINT RECFK2
    FOREIGN KEY (CNES) REFERENCES POSTO_DE_VACINAÇÃO(CNES)
        ON DELETE RESTRICT ON UPDATE CASCADE
);

```

```

CREATE TABLE CIDADÃO(
    NOME_CD            CHAR(15)        NOT NULL,
    CPF                INT(11),
    CNS                INT(15)         NOT NULL,
    SEXO               CHAR(1)         NOT NULL,
    CEP                INT(8),
    DATA_DE_NASCIMENTO DATE          NOT NULL,
    IDADE              INT(3)          NOT NULL,
    MUNICIPIO_CD       CHAR(30)        NOT NULL,

    ADD CONSTRAINT CDPK1
    PRIMARY KEY(CNS),

    ADD CONSTRAINT CDPK2
    UNIQUE(CPF)
);

```

```

CREATE TABLE COMORBIDADE_ALERGIA_CD(
    CNS                INT(15)         NOT NULL,
    COMORBIDADE_CD     CHAR(30),
    ALERGIA            CHAR(30),

    ADD CONSTRAINT CACDPK
    PRIMARY KEY (CNS),

    ADD CONSTRAINT CACDFK
    FOREIGN KEY (CNS) REFERENCES CIDADAO(CNS)
        ON DELETE CASCADE ON UPDATE CASCADE
);

```

```

CREATE TABLE FUNCIONARIO(
    CPF            INT(11)      NOT NULL,
    CARGO          CHAR(20),
    CATEGORIA      CHAR(20)     NOT NULL,

    ADD CONSTRAINT FUNPK
    PRIMARY KEY CPF,

    ADD CONSTRAINT FUNFK
    FOREIGN KEY (CPF) REFERENCES CIDADAO(CPF)
        ON DELETE CASCADE ON UPDATE CASCADE
);

CREATE TABLE TRABALHA(
    CNES          INT(7)      NOT NULL,
    CPF_FUN       INT(11)     NOT NULL,

    ADD CONSTRAINT TRABPK
    PRIMARY KEY (CNES, CPF_FUN),

    ADD CONSTRAINT TRABFK1
    FOREIGN KEY (CNES) REFERENCES POSTO_DE_VACINACAO(CNES)
        ON DELETE RESTRICT ON UPDATE CASCADE,

    ADD CONSTRAINT TRABFK2
    FOREIGN KEY (CPF_FUN) REFERENCES FUNCIONARIO(CPF_FUN)
        ON DELETE CASCADE ON UPDATE CASCADE
);

```

```

CREATE TABLE APLICA(
    CNS_CD          INT(15)      NOT NULL,
    CPF_FUN         INT(11)      NOT NULL,
    CODIGO_LT       INT(8)       NOT NULL,
    DATA_APLICACAO DATE        NOT NULL,

    ADD CONSTRAINT APLPK
    PRIMARY KEY (CNS_CD, CODIGO_LT),

    ADD CONSTRAINT APLFK1
    FOREIGN KEY (CNS_CD) REFERENCES CIDADAO(CNS)
        ON DELETE RESTRICT ON UPDATE CASCADE,

    ADD CONSTRAINT APLFK2
    FOREIGN KEY (CPF_FUN) REFERENCES FUNCINARIO(CPF)
        ON DELETE RESTRICT ON UPDATE CASCADE,

    ADD CONSTRAINT APLFK3
    FOREIGN KEY (CODIGO_LT) REFERENCES LOTE(CODIGO_LT)
        ON DELETE RESTRICT ON UPDATE CASCADE
);

```