

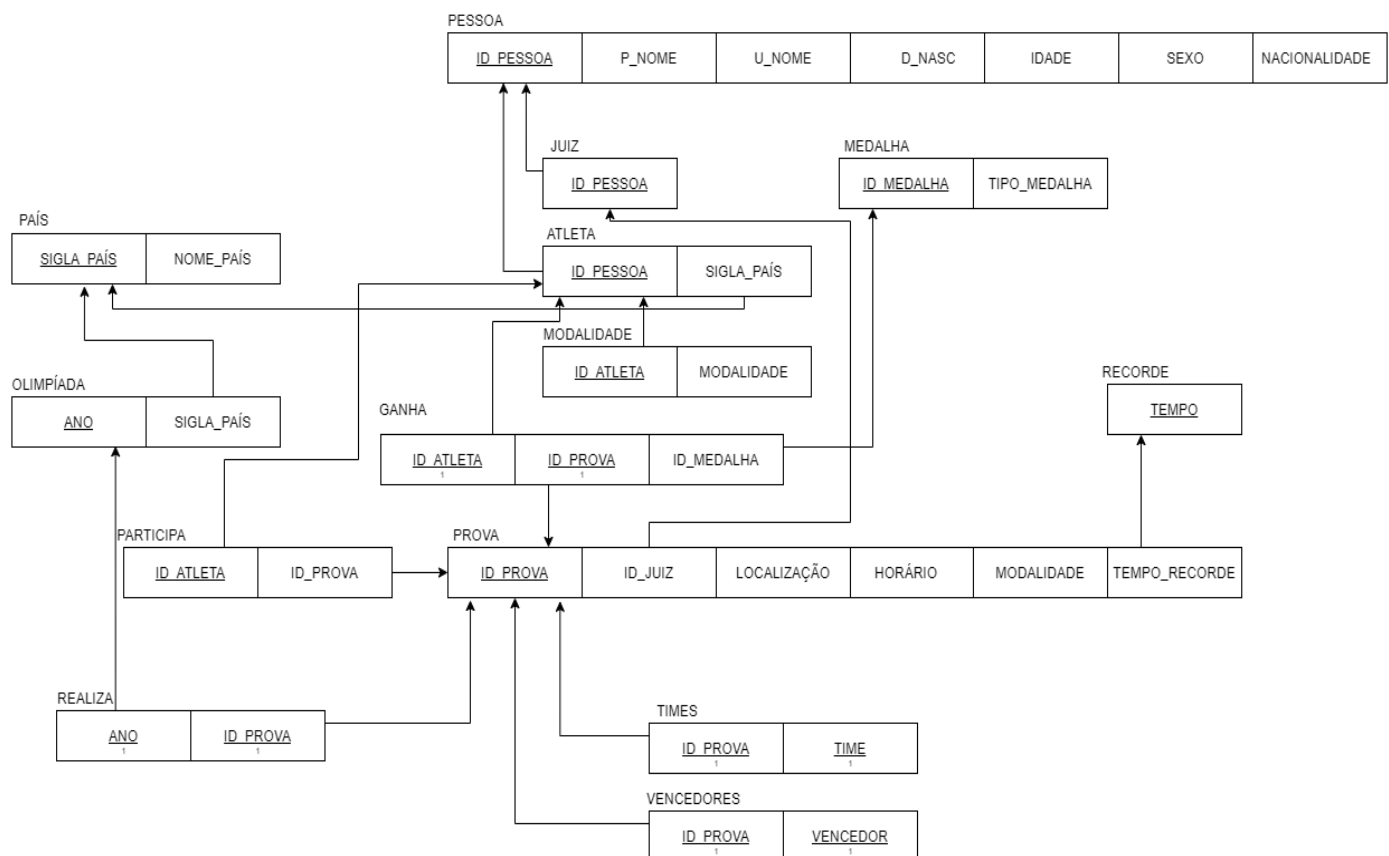
Esquema Lógico-Relacional

Banco de Dados das Olimpíadas

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1. Diagrama Lógico-Relacional



2. Comandos DDL-SQL

```
CREATE TABLE PESSOA(  
    ID_PESSOA      INT(5)          NOT NULL,  
    P_NOME         VARCHAR(20)     NOT NULL,  
    U_NOME         VARCHAR(20)     NOT NULL,  
    D_NASC         DATE            NOT NULL,  
    IDADE          INT(3)          NOT NULL,  
    SEXO           CHAR(1)         NOT NULL,  
    NACIONALIDADE  CHAR(3)         NOT NULL,  
  
    ADD CONSTRAINT PEPK  
    PRIMARY KEY(ID_PESSOA)  
);
```

```
CREATE TABLE JUIZ(  
    ID_PESSOA      INT(5)          NOT NULL,  
  
    ADD CONSTRAINT JZPK  
    PRIMARY KEY(ID_PESSOA),  
  
    ADD CONSTRAINT JZFK  
    FOREIGN KEY(ID_PESSOA) REFERENCES PESSOA(ID_PESSOA)  
    ON DELETE CASCADE ON UPDATE CASCADE  
);
```

```
CREATE TABLE ATLETA(  
    ID_PESSOA      INT(5)          NOT NULL,  
    SIGLA_PAÍS     CHAR(3)         NOT NULL,  
  
    ADD CONSTRAINT ATPK  
    PRIMARY KEY(ID_PESSOA),  
  
    ADD CONSTRAINT ATFK1
```

```
FOREIGN KEY(ID_PESSOA) REFERENCES PESSOA(ID_PESSOA)
ON DELETE CASCADE ON UPDATE CASCADE,
```

```
ADD CONSTRAINT ATFK2
```

```
FOREIGN KEY(SIGLA_PAÍS) REFERENCES PAÍS(SIGLA_PAÍS)
ON DELETE CASCADE ON UPDATE CASCADE
```

```
);
```

```
CREATE TABLE PAIS(
```

```
    SIGLA_PAIS      CHAR(3)    NOT NULL,
    NOME_PAIS       CHAR(57)   NOT NULL,
```

```
ADD CONSTRAINT PAPK
```

```
PRIMARY KEY(SIGLA_PAIS)
```

```
);
```

```
CREATE TABLE PROVA(
```

```
    ID_PROVA        INT(5)     NOT NULL,
    ID_JUIZ          INT(50)    NOT NULL,
    LOCALIZAÇÃO     CHAR(60)    NOT NULL,
    HORÁRIO          INT(2)     NOT NULL,
    MODALIDADE       CHAR(60)    NOT NULL,
    TEMPO_RECORDE   INT(6),
```

```
ADD CONSTRAINT PRPK
```

```
PRIMARY KEY(ID_PROVA),
```

```
ADD CONSTRAINT PRFK1
```

```
FOREIGN KEY(ID_JUIZ) REFERENCES JUIZ(ID_PESSOA)
ON DELETE CASCADE ON UPDATE CASCADE,
```

```
ADD CONSTRAINT PRFK2
```

```
FOREIGN KEY(TEMPO_RECORDE) REFERENCES RECORDE(TEMPO)
ON DELETE CASCADE ON UPDATE CASCADE
```

```
);
```

```
CREATE TABLE OLIMPÍADA(
```

```
    ANO             INT(4)     NOT NULL,
    SIGLA_PAÍS      CHAR(3)    NOT NULL,
```

```
ADD CONSTRAINT OLPK
```

```
PRIMARY KEY(ANO),
```

```
ADD CONSTRAINT OLFK
```

```
FOREIGN KEY(SIGLA_PAÍS) REFERENCES PAÍS(SIGLA_PAÍS)
```

ON DELETE CASCADE ON UPDATE CASCADE

);

```
CREATE TABLE MEDALHA(  
    TIPO_MEDALHA    CHAR(6)    NOT NULL,  
    ID_MEDALHA      INT(5)      NOT NULL,  
  
    ADD CONSTRAINT MDPK  
    PRIMARY KEY(ID_MEDALHA)
```

);

```
CREATE TABLE RECORDE(  
    TEMPO          INT(6)          NOT NULL,  
  
    ADD CONSTRAINT RCPK  
    PRIMARY KEY(TEMPO)
```

);

```
CREATE TABLE TIMES(  
    ID_PROVA        INT(5)        NOT NULL,  
    TIME            CHAR(60)      NOT NULL,  
  
    ADD CONSTRAINT TMPK  
    PRIMARY KEY(ID_PROVA, TIME),  
  
    ADD CONSTRAINT TMFK  
    FOREIGN KEY(ID_PROVA) REFERENCES PROVA(ID_PROVA)  
    ON DELETE CASCADE ON UPDATE CASCADE
```

);

```
CREATE TABLE VENCEDORES(  
    ID_PROVA        INT(5)        NOT NULL,  
    VENCEDORES      CHAR(60)      NOT NULL,  
  
    ADD CONSTRAINT VNCPK  
    PRIMARY KEY(ID_PROVA, VENCEDOR),
```

```
    ADD CONSTRAINT VNCFK
```

```
FOREIGN KEY(ID_PROVA) REFERENCES PROVA(ID_PROVA)
ON DELETE CASCADE ON UPDATE CASCADE
```

```
);
```

```
CREATE TABLE MODALIDADE(
```

```
    ID_ATLETA        INT(5)        NOT NULL,
    MODALIDADE        CHAR(60)       NOT NULL,
```

```
ADD CONSTRAINT MDLPK
PRIMARY KEY(ID_ATLETA),
```

```
ADD CONSTRAINT MDLFK1
FOREIGN KEY(ID_ATLETA) REFERENCES ATLETA(ID_PESSOA)
ON DELETE CASCADE ON UPDATE CASCADE
```

```
);
```

```
CREATE TABLE REALIZA(
```

```
    ANO              INT(4)        NOT NULL,
    ID_PROVA          INT(5)        NOT NULL,
```

```
ADD CONSTRAINT RLZPK
PRIMARY KEY(ANO, ID_PROVA),
```

```
ADD CONSTRAINT RLZFK1
FOREIGN KEY(ANO) REFERENCES OLIMPIÁDA(ANO)
ON DELETE CASCADE ON UPDATE CASCADE,
```

```
ADD CONSTRAINT RLZFK2
FOREIGN KEY(ID_PROVA) REFERENCES PROVA(ID_PROVA)
ON DELETE CASCADE ON UPDATE CASCADE
```

```
);
```

```
CREATE TABLE GANHA(
```

```
    ID_ATLETA        INT(5)        NOT NULL,
    ID_PROVA          INT(5)        NOT NULL,
    ID_MEDALHA        INT(5)        NOT NULL,
```

```
ADD CONSTRAINT GNHPK  
PRIMARY KEY(ID_ATLETA, ID_PROVA),
```

```
ADD CONSTRAINT GNHFK1  
FOREIGN KEY(ID_ATLETA) REFERENCES ATLETA(ID_PESSOA)  
ON DELETE CASCADE ON UPDATE CASCADE,
```

```
ADD CONSTRAINT GNHFK2  
FOREIGN KEY(ID_PROVA) REFERENCES PROVA(ID_PROVA)  
ON DELETE CASCADE ON UPDATE CASCADE,
```

```
ADD CONSTRAINT GNHFK3  
FOREIGN KEY(ID_MEDALHA) REFERENCES MEDALHA(ID_MEDALHA)  
ON DELETE CASCADE ON UPDATE CASCADE
```

```
);
```

```
CREATE TABLE PARTICIPA(  
    ID_ATLETA          INT(5)          NOT NULL,  
    ID_PROVA           INT(5)          NOT NULL,
```

```
ADD CONSTRAINT PARPK  
PRIMARY KEY(ID_ATLETA),
```

```
ADD CONSTRAINT PARFK1  
FOREIGN KEY(ID_ATLETA) REFERENCES ATLETA(ID_PESSOA)  
ON DELETE CASCADE ON UPDATE CASCADE,
```

```
ADD CONSTRAINT PARFK2  
FOREIGN KEY(ID_PROVA) REFERENCES PROVA(ID_PROVA)  
ON DELETE CASCADE ON UPDATE CASCADE
```

```
);
```