**RELATIONAL SCHEMA BEGINNINGS**

RACEDAY

|  |  |  |  |
| --- | --- | --- | --- |
| NAME | DATE | TRACK | EVENTS |

RACE

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RACEID | TRACK | DISTANCE | PRIZEWON | GATES | PARTICIPANTS |

TRACK

|  |  |  |  |
| --- | --- | --- | --- |
| NAME | LOCATION | LENGTH | TERRAIN TYPE |

HORSE

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| HORSEID | NAME | HEIGHT | WEIGHT | VALUE | AGE | BREED | OWNERID | JOCKEYID | TRAINERID |

JOCKEY

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| JOCKEYID | NAME | COLORS | HEIGHT | WEIGHT | RANK | EARNINGS |

OWNER

|  |  |  |  |
| --- | --- | --- | --- |
| OWNERID | NAME | NETWORTH | RANK |

TRAINER

|  |  |  |  |
| --- | --- | --- | --- |
| TRAINERID | NAME | RANK | EARNINGS |

RECORD

|  |  |  |
| --- | --- | --- |
| TOTALRACES | RACESWON | WINPERCENT |

WINNER

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RACEID | COMPLETIONTIME | HORSEID | OWNERID | TRAINERID | JOCKEYID | PRIZEWON |

PRIZE

|  |  |
| --- | --- |
| TROPHYTITLE | CASHVALUEGIVEN |

**QUERIES FOR CREATION OF TABLES IN DATABASE**

CREATE TABLE IF NOT EXISTS raceday (

\_name VARCHAR(255) PRIMARY KEY,

\_date DATE,

track VARCHAR(255),

\_events VARCHAR(255)

);

CREATE TABLE IF NOT EXISTS race (

RaceID INT PRIMARY KEY,

track VARCHAR(255),

distance INT,

prizewon VARCHAR(255),

gates INT,

participants VARCHAR(255)

);

CREATE TABLE IF NOT EXISTS track (

\_name VARCHAR(255) PRIMARY KEY,

location VARCHAR(255),

length INT,

terraintype VARCHAR(255)

);

CREATE TABLE IF NOT EXISTS jockey (

jockeyID INT PRIMARY KEY,

\_name VARCHAR(255),

colors VARCHAR(255),

height INT,

weight INT,

\_rank INT,

earnings INT

);

CREATE TABLE IF NOT EXISTS \_owner (

ownerID INT PRIMARY KEY,

\_name VARCHAR(255),

networth INT,

\_rank INT

);

CREATE TABLE IF NOT EXISTS trainer (

trainerID INT PRIMARY KEY,

name VARCHAR(255),

\_rank INT,

earnings INT

);

CREATE TABLE IF NOT EXISTS record (

Totalraces INT,

Raceswon INT,

Winpercent INT

);

CREATE TABLE IF NOT EXISTS prize (

Trophytitle VARCHAR(255),

Cashvaluegiven INT

);

CREATE TABLE IF NOT EXISTS horse (

horseID INT PRIMARY KEY,

\_name VARCHAR(255),

height INT,

weight INT,

\_value VARCHAR(255),

age INT,

breed VARCHAR(255),

ownerID INT,

jockeyID INT,

trainerID INT,

FOREIGN KEY (ownerID) REFERENCES \_owner (ownerID),

FOREIGN KEY (jockeyID) REFERENCES jockey (jockeyID),

FOREIGN KEY (trainerID) REFERENCES trainer (trainerID)

);

CREATE TABLE IF NOT EXISTS winner (

raceID INT PRIMARY KEY,

completiontime INT,

horseID INT,

ownerID INT,

trainerID INT,

jockeyID INT,

prizewon VARCHAR(255),

FOREIGN KEY (ownerID) REFERENCES \_owner (ownerID),

FOREIGN KEY (jockeyID) REFERENCES jockey (jockeyID),

FOREIGN KEY (trainerID) REFERENCES trainer (trainerID),

FOREIGN KEY (horseID) REFERENCES horse (horseID),

FOREIGN KEY (raceID) REFERENCES race (raceID)

);

CREATE DATABASE IF NOT EXISTS horse\_race\_database;

**INSERTED SOME VALUES INTO TABLE TO TEST A QUERY**

INSERT INTO raceday (\_name, \_date, track, \_events)

VALUES ('derby6', '20200310', 'lucky 13', 'raceiD 1');

INSERT INTO race (raceID, track, distance, prizewon, gates, participants)

VALUES ('230', 'lucky\_13', '30', 'trophy', '3', 'edward');

INSERT INTO track (\_name, location, length, terraintype)

VALUES ('belmont stakes3', 'kentucky', '30', 'grass');

INSERT INTO horse (horseID, \_name, height, weight, \_value, age, breed, ownerID, jockeyID, trainerID)

VALUES ('3', 'adonis', '411', '300', '1', '5', 'breed', '1383', '456', '234');

INSERT INTO jockey (jockeyID, \_name, colors, height, weight, \_rank, earnings)

VALUES ('567', 'elizabeth', 'orange', '56', '150', '2', '5000');

INSERT INTO \_owner (ownerID, \_name, networth, \_rank)

VALUES ('4567', 'stacy', '10000', '1');

INSERT INTO trainer (trainerID, \_name, \_rank, earnings)

VALUES ('568', 'joshua', '1', '3000');

INSERT INTO record (Totalraces, Raceswon, Winpercent)

VALUES ('3', '2', '90');

INSERT INTO winner (raceID, completiontime, horseID, ownerID, trainerID, jockeyID, prizewon)

VALUES ('23423', '10', '234235', '24557', '678679', '2353647', 'money');

INSERT INTO prize (trophytitle, cashvaluegiven)

VALUES ('kentucky derby trophy3', '3000');

SELECT \* FROM record