3618

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A.

1.

RESULT <- π(FNAME) Λ π(LNAME)(σ(TNAME)= "Real Madrid")

2.

RESULT <- π(MID)(σ(PLAYER.LNAME) = "Silva")V(σ(COACHES.GUESTCID) = σ(MANAGER.CID) Λ σ(LNAME) = "Silva")

3.

RESULT <- π(MANAGER.FNAME) Λ π(MANAGER.LNAME) Λ π(TNAME)(σ(MANAGER.TID) = σ(TEAM.TID))

4.

RESULT <- π(PLAYER.PID)(σ(PLAYER.SALARY) > σ(PLAYER.SALARY) Λ -(σ(PLAYER.SALARY) <= σ(PLAYER.SALARY))

5.

RESULT <- π(MANAGER.CID)(σ(MANAGER.SALARY) < σ(MANAGER.SALARY) Λ -(σ(MANAGER.SALARY) >= σ(MANAGER.SALARY))

6.

RESULT <- π(PLAYER.PID)(σ(PLAYER.PID) = σ(PLAYED.PID) Λ σ(PLAYER.TID) = σ(TEAM.TID) Λ σ(TNAME) = "Juventus")

7.

RESULT <- π(FNAME) Λ π(LNAME)(σ(POSITION) = "Forward" Λ 2018-σ(PLAYER.BDATE) < 32)

B.

CREATE TABLE IF NOT EXISTS PLAYER{

PID int;

FNAME varchar(20);

LNAME varchar(20);

BDATE varchar(20);

POSITION varchar(20);

SALARY double;

TID int;

}

CREATE TABLE IF NOT EXISTS TEAM{

TID int;

TNAME varchar(20);

STADIUM varchar(20);

CITY varchar(20);

}

CREATE TABLE IF NOT EXISTS MATCHES{

MID int;

HOSTID int;

GUESTID int;

DATE varchar(20);

HOSTSCORE int;

GUESTSCORE int;

}

CREATE TABLE IF NOT EXISTS PLAYED{

PID int;

MID int;

}

CREATE TABLE IF NOT EXISTS MANAGER{

CID int;

FNAME varchar(20);

LNAME varchar(20);

SALARY double;

BDATE varchar(20);

TID int;

}

CREATE TABLE IF NOT EXISTS COACHES{

HOSTCID int;

GUESTCID int;

MID int;

}

CREATE TABLE IF NOT EXISTS players{

PLAYERS PLAYER;

max double;

pid int;

}

CREATE TABLE IF NOT EXISTS managers{

MANAGERS MANAGER;

min double;

cid int;

}

CREATE TABLE IF NOT EXISTS matches{

Matches MATCHES;

}

CREATE TABLE IF NOT EXISTS played{

Played PLAYED;

}

1. SELECT FNAME, LNAME, TNAME FROM PLAYER,TEAM WHERE TNAME = "REAL MADRID";

2. SELECT MID, LNAME, LNAME FROM MATCHES, MANAGER WHERE LNAME = "Silva" OR LNAME = "Silva";

3. SELECT FNAME, LNAME, TNAME FROM MANAGER,TEAM

4. SELECT PID, PLAYERS, max, pid FROM PLAYER, players

max = PLAYERS[0].SALARY;

pid = PLAYERS[0].PID;

for(i = 1 int; i < PLAYERS.length; i++){

WHERE PLAYERS[i].SALARY > max{

max = PLAYERS[i].SALARY;

pid = PLAYERS[i].PID;

}

}

5. SELECT CID, MANAGERS, min, cid FROM MANAGER, managers

min = MANAGERS[0].SALARY;

cid = MANAGERS[0].CID;

for(i = 1 int; i < MANAGERS.length; i++){

WHERE MANAGERS[i].SALARY < min{

min = MANAGERS[i].SALARY;

cid = MANAGERS[i].CID;

}

}

6. SELECT pid, PLAYERS, Matches, Played, TNAME

FROM TEAM, played, matches, players

WHERE Played.MID = Matches.MID

AND Played.PID = PLAYERS.PID

AND TNAME = "Juventus"

7. SELECT FNAME, LNAME, BDATE, PLAYERS FROM players, PLAYER

WHERE 2018 - BDATE < 32 AND PLAYERS.POSITION = "Forward"

1.

Sergio | Ramos

Luka | Modric

2.

1

2

3

3.

Zinedine | Zidane |

Ernesto | Valverde | Barcelona

Marco | Silva | Everton

Massimilliano | Allegri | Juventus

Thomas | Tuchel | Paris Saint-Germain

Santiago | Solari | Real Madrid

Pep | Guardiola | Manchester City

4.

4

5.

3

6.

1

7.

Lionel | Messi

Neymar | Santos

Theo | Walcott

Manos | Anagnostakis