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3618
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Α.
1.
RESULT \leftarrow \pi(FNAME) \land \pi(LNAME) (\sigma(TNAME) = "Real Madrid")
2.
RESULT \leftarrow \pi(MID) (\sigma(PLAYER.LNAME) = "Silva") V (\sigma(COACHES.GUESTCID)
= \sigma (MANAGER.CID) \Lambda \sigma (LNAME) = "Silva")
3.
RESULT <-\pi (MANAGER.FNAME) \Lambda \pi (MANAGER.LNAME) \Lambda
\pi (TNAME) (\sigma (MANAGER.TID) = \sigma (TEAM.TID))
4.
RESULT \leftarrow \pi(PLAYER.PID) (\sigma(PLAYER.SALARY)) > \sigma(PLAYER.SALARY)  \Lambda -
(\sigma(PLAYER.SALARY) \le \sigma(PLAYER.SALARY))
RESULT <- \pi (MANAGER.CID) (\sigma (MANAGER.SALARY) < \sigma (MANAGER.SALARY) \Lambda
-(\sigma(MANAGER.SALARY)) >= \sigma(MANAGER.SALARY))
6.
RESULT \leftarrow \pi(PLAYER.PID) (\sigma(PLAYER.PID) = \sigma(PLAYED.PID) \Lambda
\sigma(PLAYER.TID) = \sigma(TEAM.TID) \land \sigma(TNAME) = "Juventus")
7.
RESULT \leftarrow \pi(\text{FNAME}) \land \pi(\text{LNAME}) (\sigma(\text{POSITION}) = \text{"Forward"} \land 2018-
\sigma(PLAYER.BDATE) < 32)
В.
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;
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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
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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++) {</pre>
           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++) {</pre>
           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
Zinedine | Zidane
                        Ernesto
             | Valverde | Barcelona
             | Silva | Everton
Marco
Massimilliano | Allegri | Juventus
Thomas | Tuchel | Paris Saint-Germain
           | Solari
                        | Real Madrid
Santiago
Pep
             | Guardiola | Manchester City
4.
4
5.
3
6.
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7.

Lionel | Messi Neymar | Santos Theo | Walcott

Manos | Anagnostakis