Homework 3

Due on Monday 13, 2017 at 11:59 PM

Submit ***3-FirstLastName.pdf*** **and** ***3-FirstLastName-Lab.txt*** through Canvas

Topics: SQL Queries and Indexes

Instructions:

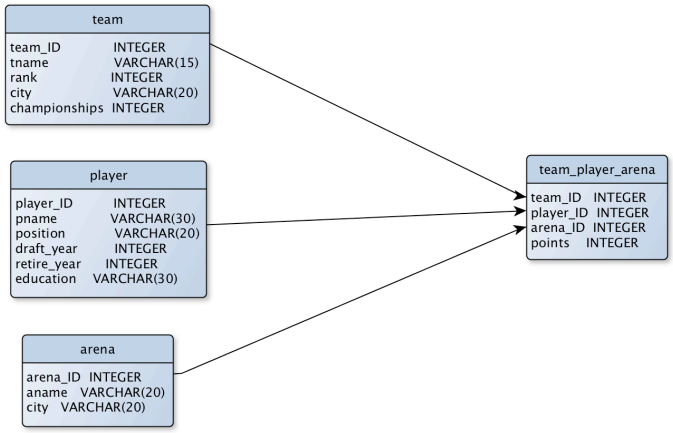
- Complete Section 1 and submit *3-FirstLastName-Lab.txt*
- Complete Section 2 and submit *3-FirstLastName.pdf*

Section 1:

This section covers the practical implementation of a database schema using DDL and SQL queries (50 points).

- Login in to the Linux Oracle server and access the database using *sqlplus* (refer to Oracle Linux Server Instructions)
- Display the SQL commands using: SET ECHO ON
- Create your homework submission log file using: SPOOL *3-FirstLastName-Lab.txt* command
- To terminate log file use: SPOOL OFF command

Using this schema that you have already created answer the questions that follow:



- The *team* table has a *team_id* primary key
- The *player* table has a *player_id* primary key
- The *arena* table has an *arena_id* primary key
- The *team_play_arena* table has a (*team_id, player_id, arena_id*) composite primary key
- The *team_play_arena* table has a *team_id* foreign key column that references the *team* table
- The *team_play_arena* table has a *player_id* foreign key column that references the *player* table
- The *team_play_arena* table has a *arena_id* foreign key column that references the *arena* table

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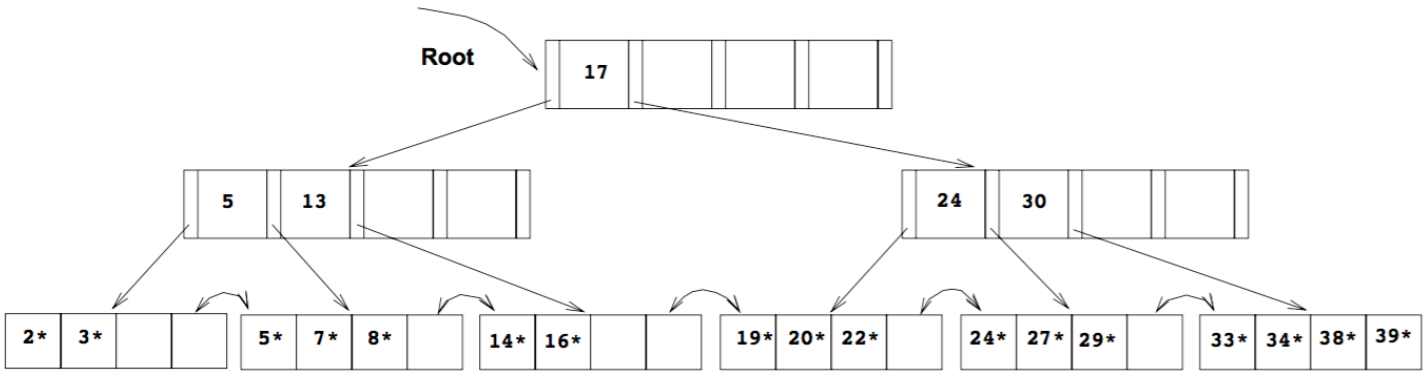
Write and run the following queries. Do not show duplicates (60 points)

1. Print the names of players who joined after 2005 and played for the Hornets
2. Print the cities where the games played had scores between 12 and 20
3. Print the names of players that belong to team that comes from a city that begins with 'Ch' and were drafted in 2007
4. Print the names of the teams that played a home game
5. Print the points and name of the player with the highest score
6. Print the names of the teams that played in all arenas

Section 2:

This section covers indexes (40 points).

Using the following B+ Tree index, answer the questions that follow:



Show the resulting B+Tree after

1. Inserting data entry 37*
2. Inserting data entry 6*
3. Inserting data entry 18*
4. Deleting data entry 3*
5. Deleting data entry 5*

Note: Use the results from the previous question as a starting point for the next question.