

Elijah Andrushenko

CPTS 451

Introduction to Database Systems

03/05/2019

#### Homework #4

1.

```
SELECT gamestats.gameid, players.playerid, players.name, gamestats.points
FROM players, gamestats
WHERE (players.playerid = gamestats.playerid) AND (points > 10) AND (name LIKE '%Jo%')
ORDER BY gameid;
```

2.

```
SELECT DISTINCT games.gameid, games.awayscore, gamestats.points
FROM games, gamestats, players, teams
WHERE (awayteam = 'LAL') AND (name = 'Kobe Bryant') AND (gamestats.playerid =
players.playerid) AND (gamestats.gameid = games.gameid)
```

3.

```
SELECT teams.teamname, teams.teamcode
FROM teams, players
WHERE (teams.teamcode = players.teamcode) AND (height > 80) AND (weight > 200)
GROUP by teams.teamcode
HAVING COUNT(teams.teamcode) >= 5
ORDER BY teams.teamcode
```

4.

```
SELECT players.teamcode, players.name, players.height
FROM players
JOIN (SELECT teamcode, MIN(height) FROM players GROUP BY teamcode) AS X
ON players.teamcode = X.teamcode AND height = X.MIN
ORDER BY players.teamcode;
```

5.

SELECT DISTINCT teamname, city

FROM (games NATURAL JOIN teams)

WHERE teamcode IN (SELECT hometeam FROM games) AND teamcode NOT IN (SELECT awayteam FROM games);

6.

SELECT players.name, players.teamcode, X.name, X.teamcode, players.height, players.weight

FROM players JOIN players AS X

ON (players.playerid > X.playerid) AND (players.teamcode = X.teamcode) AND (players.height = X.height) AND (players.weight = X.weight)

7.

SELECT DISTINCT games.gameid, hometeam, awayteam, homescore, awayscore

FROM players, games, gamestats

WHERE (games.gameid = gamestats.gameid) AND (players.playerid = gamestats.playerid)  
AND ((name = 'DJ Mbenga') OR (name = 'Shannon Brown'))

8.

SELECT X.gameid

FROM (SELECT DISTINCT \* FROM (games NATURAL JOIN gamestats NATURAL JOIN players) WHERE playerid = 38) AS X

JOIN (select DISTINCT \* FROM (games NATURAL JOIN gamestats NATURAL JOIN players) WHERE playerid = 44) AS Y

ON (Y.points > X.points) AND (Y.gameid = X.gameid);

9.

SELECT teams.teamname, teams.city

FROM teams

WHERE (teams.teamcode NOT IN (SELECT games.hometeam FROM games)) AND  
(teams.teamcode NOT IN (SELECT games.awayteam FROM games))

ORDER BY teams.teamname;

10.

SELECT Teams.teamname, Teams.teamcode, Players.playerID, Players.name, Y.totalPoints

FROM (Teams NATURAL JOIN Players NATURAL JOIN

```
(SELECT * FROM (SELECT gamestats.Playerid, SUM(gamestats.points) AS totalPoints FROM  
gamestats GROUP BY gamestats.playerid) AS X  
WHERE X.totalPoints >= 25) AS Y)
```