**Neo4J Exercises**

**Step 1.**

**Use the following statements to populate the database.**

CREATE (alex:Player{name:"Alex"})<-[:OF\_PLAYER]-(t1:Transfer{season:"01/02", id:1}), (ronaldo:Player{name:"Ronaldo"})<-[:OF\_PLAYER]-(t2:Transfer{season:"01/02", id:2}), (messi:Player{name:" Messi"})<-[:OF\_PLAYER]-(t3:Transfer{season:"02/03", id:3}), (neymar:Player{name:"Neymar"})<-[:OF\_PLAYER]-(t4:Transfer{season:"02/03", id:4}), (zidane:Player{name:"Zidane"})<-[:OF\_PLAYER]-(t5:Transfer{season:"01/02", id:5}), (maradona:Player{name:"Maradona"})<-[:OF\_PLAYER]-(t6:Transfer{season:"01/02", id:6}), (james:Player{name:"James"})<-[:OF\_PLAYER]-(t7:Transfer{season:"04/05", id:7}), (maradona)<-[:OF\_PLAYER]-(t8:Transfer{season:"01/02", id:8}), (realMadrid:Club{name: "Real Madrid", country: "Spain"}), (barcelona:Club{name: "Barcelona", country: "Spain"}), (cork: Club {name: "Cork City", country: "Ireland"}), (t1)-[:TO\_CLUB]->(realMadrid), (t1)-[:FROM\_CLUB]->(barcelona), (t2)-[:TO\_CLUB]->(realMadrid), (t2)-[:FROM\_CLUB]->(barcelona), (t3)-[:TO\_CLUB]->(barcelona), (t3)-[:FROM\_CLUB]->(realMadrid), (t4)-[:TO\_CLUB]->(cork), (t4)-[:FROM\_CLUB]->(barcelona), (t5)-[:TO\_CLUB]->(cork), (t5)-[:FROM\_CLUB]->(realMadrid), (t6)-[:TO\_CLUB]->(cork), (t6)-[:FROM\_CLUB]->(barcelona), (t7)-[:TO\_CLUB]->(cork), (t7)-[:FROM\_CLUB]->(realMadrid), (t8)-[:TO\_CLUB]->(realMadrid), (t8)-[:FROM\_CLUB]->(cork);

**Step 2.**

1. Write a Cypher query to retrieve the name of all players in the database. Hint: use the MATCH-RETURN statement.
2. Write a Cypher query to retrieve player.name =”Alex” from the DB (return the node). Hint: use the MATCH-RETURN statement.
3. Write a Cypher query to retrieve the number of players in the DB. Hint: use count().
4. Write a Cypher query to retrieve the name of all clubs in the database. Hint: use distinct to retrieve unique names.
5. Write a Cypher query to retrieve all transfers of the “01/02” season. Hint: (Transfers{season: ”01/02”}).
6. Write a Cypher query to retrieve all transferred players to “Real Madrid”.
7. Write a Cypher query to retrieve the number of transferred players to “Real Madrid” in the “01/02” Season.
8. Write a Cypher query to retrieve the name of the players transferred to or from a Spanish team. Hint: use club.country = "Spain".
9. Write a Cypher query to retrieve the total number of transferred players from Spanish (Club.country = “Spain”) to Irish teams (Club.country = “Ireland”).
10. Write a Cypher query to retrieve the most transferred player in the DB. If multiple players tie in the query return the first one available in the DB. Hint: use the WITH clause and ORDER BY and LIMIT.