Cypher Lab 2

1. What is the average student age?

match(s:Student) return avg(s.age) as AveAge;

1. Count the number of rooms

MATCH (n:Room) RETURN count(\*)

1. List the course names

MATCH (n:Course) RETURN n.courseName

1. List the project names

MATCH (n:Project) RETURN n.projectName

1. Count the number of rooms databases takes place in

MATCH (course:Course {courseName:"Databases"}) – [:TAKESPLACEIN] -> (room)

RETURN count(\*)

1. Count the number of rooms programming takes place in

MATCH (course:Course {courseName:"Programming"}) – [:TAKESPLACEIN] -> (room)

RETURN count(\*)

1. Create a relationship to show that programming will take place in the Beta room

MATCH (c:Course),(r:Room)

WHERE c.courseName = 'Programming'AND r.roomName = 'Beta'

CREATE p = (c)-[t:TAKESPLACEIN{ name:"Programming- Beta" }]-> (r)

RETURN p

Note if you run the above command twice e.g. in error the following command will delete both relationships:

match (c:Course {courseName:'Programming'}) - [t:TAKESPLACEIN]- (r:Room {roomName:'Beta'}) delete t

1. Count the number of rooms programming takes place in

MATCH (course:Course {courseName:"Programming"}) – [:TAKESPLACEIN] -> (room:Room)

RETURN count(\*)

1. List the rooms that programming takes place in

MATCH (course:Course {courseName:"Programming"}) – [:TAKESPLACEIN] -> (room:Room)

RETURN room.roomName

1. List the courses that take place in the Beta room

MATCH (c:Course) – [t:TAKESPLACEIN] -> (r:Room{roomName:"Beta"})

RETURN c.courseName

1. Count the number of courses that take place in the Beta room

MATCH (c:Course) – [t:TAKESPLACEIN] -> (r:Room{roomName:"Beta"})

RETURN count(c)