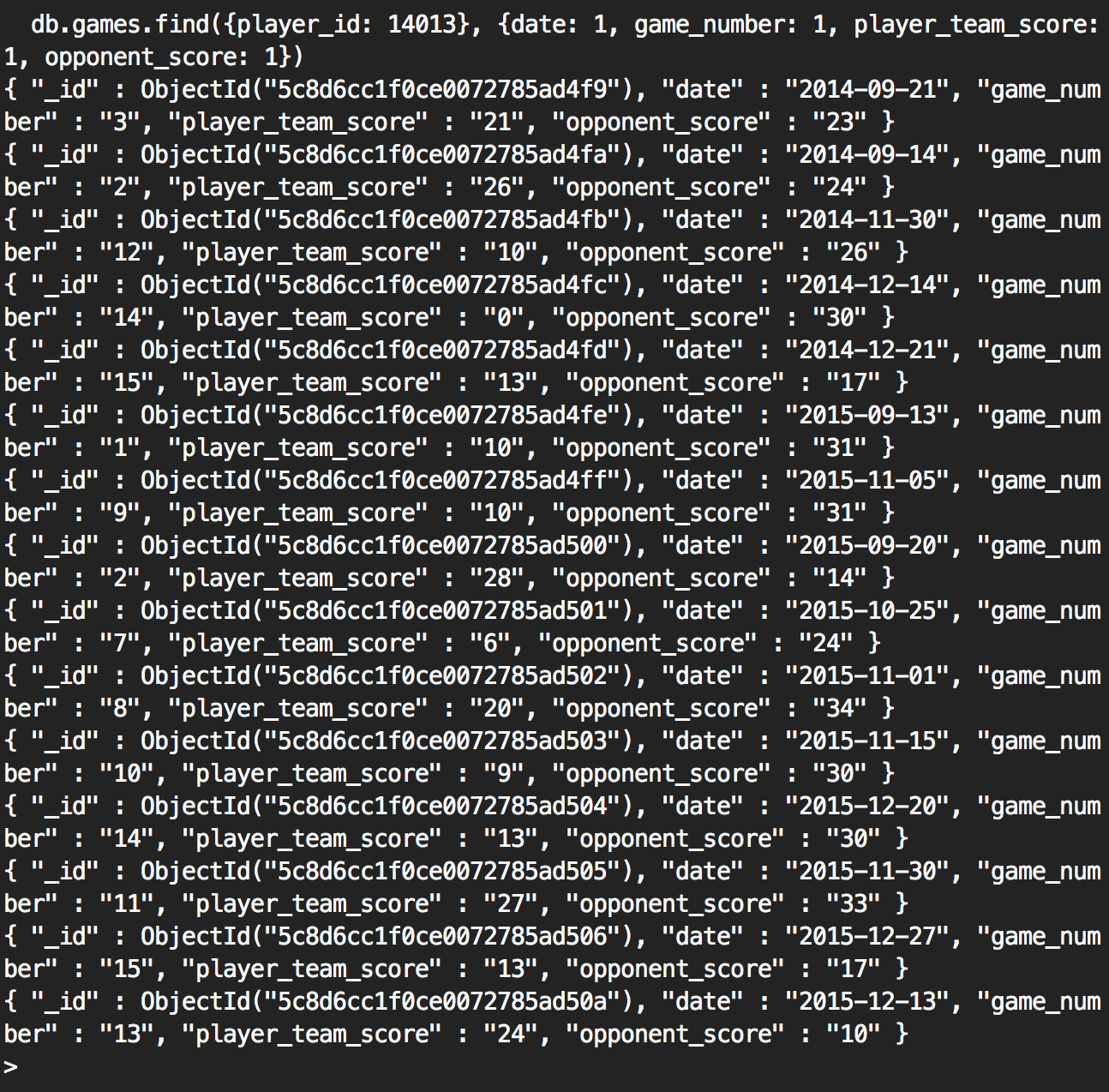
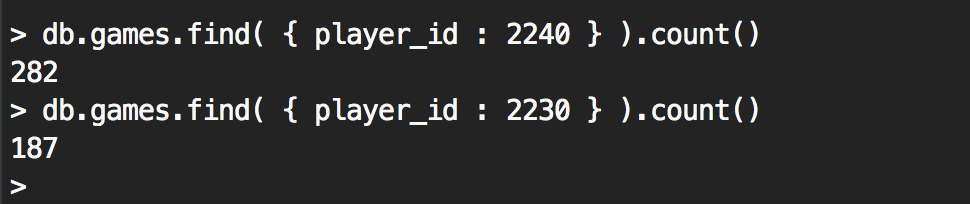
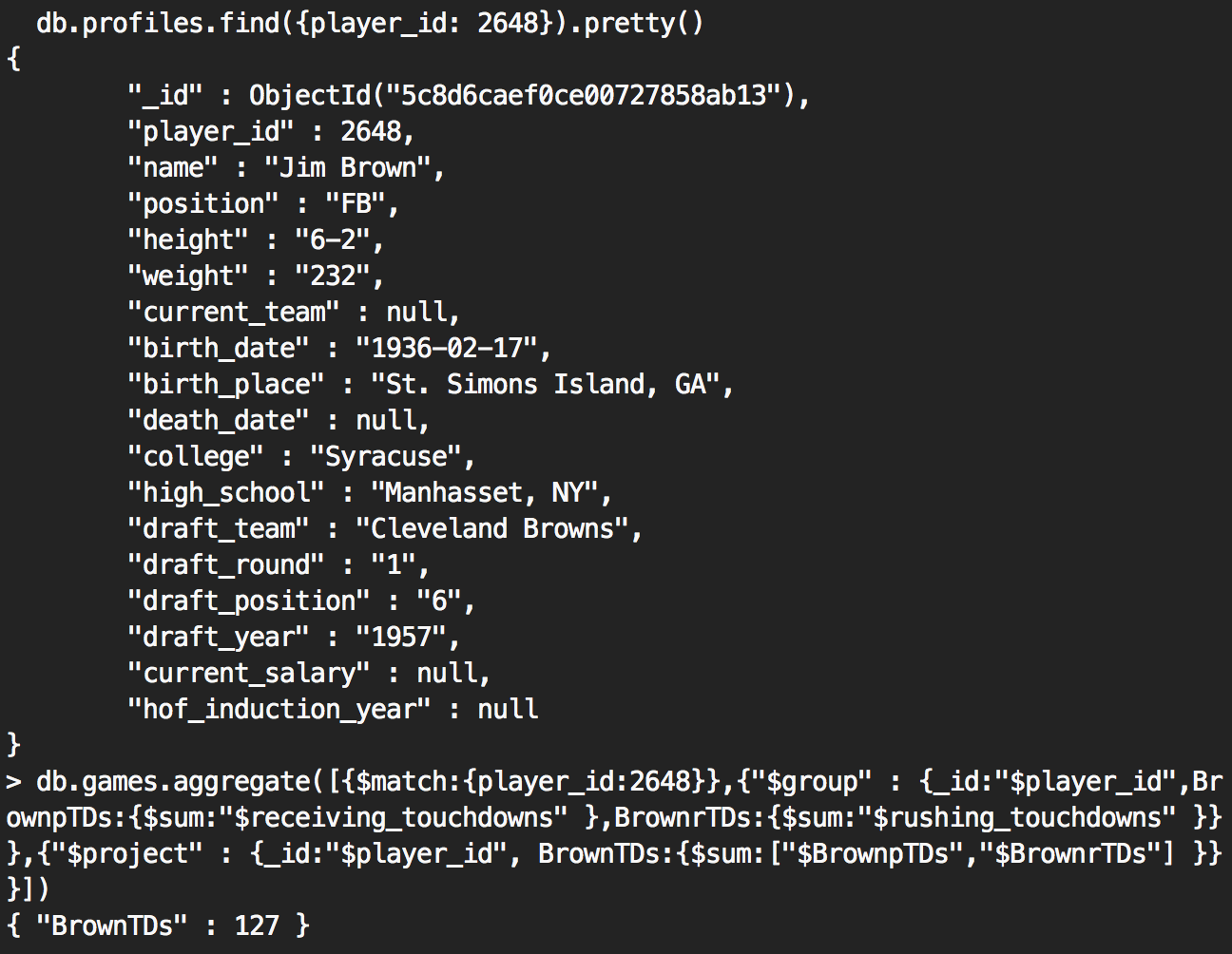
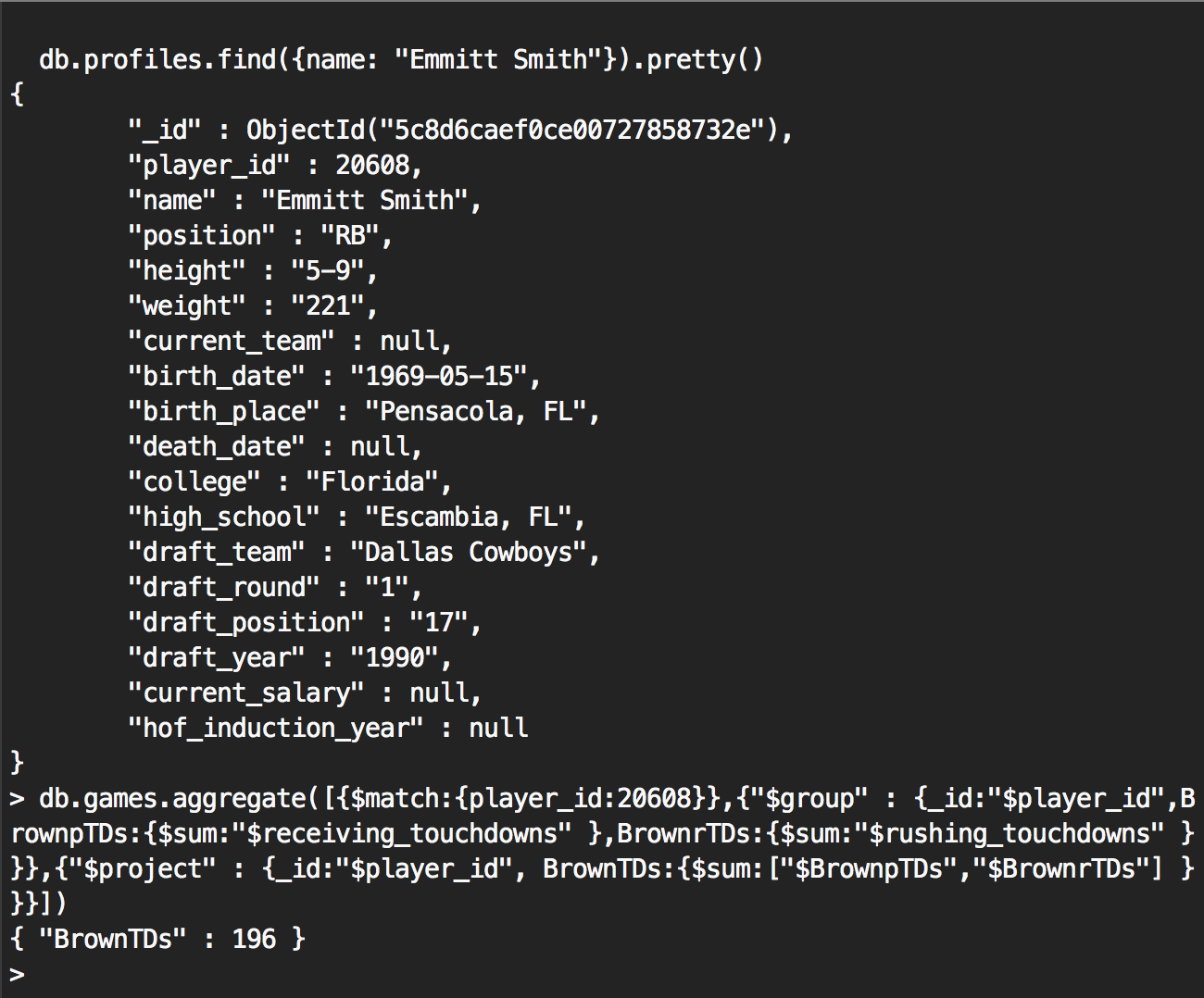
Project Work 5

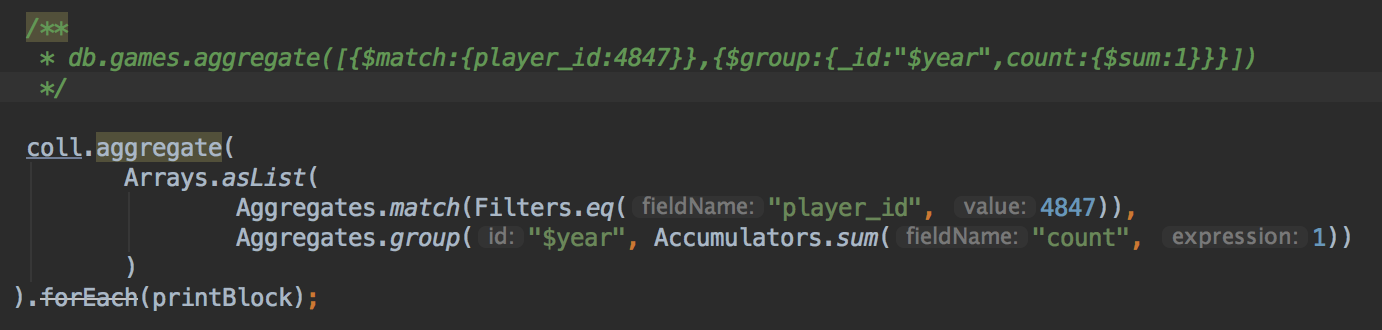
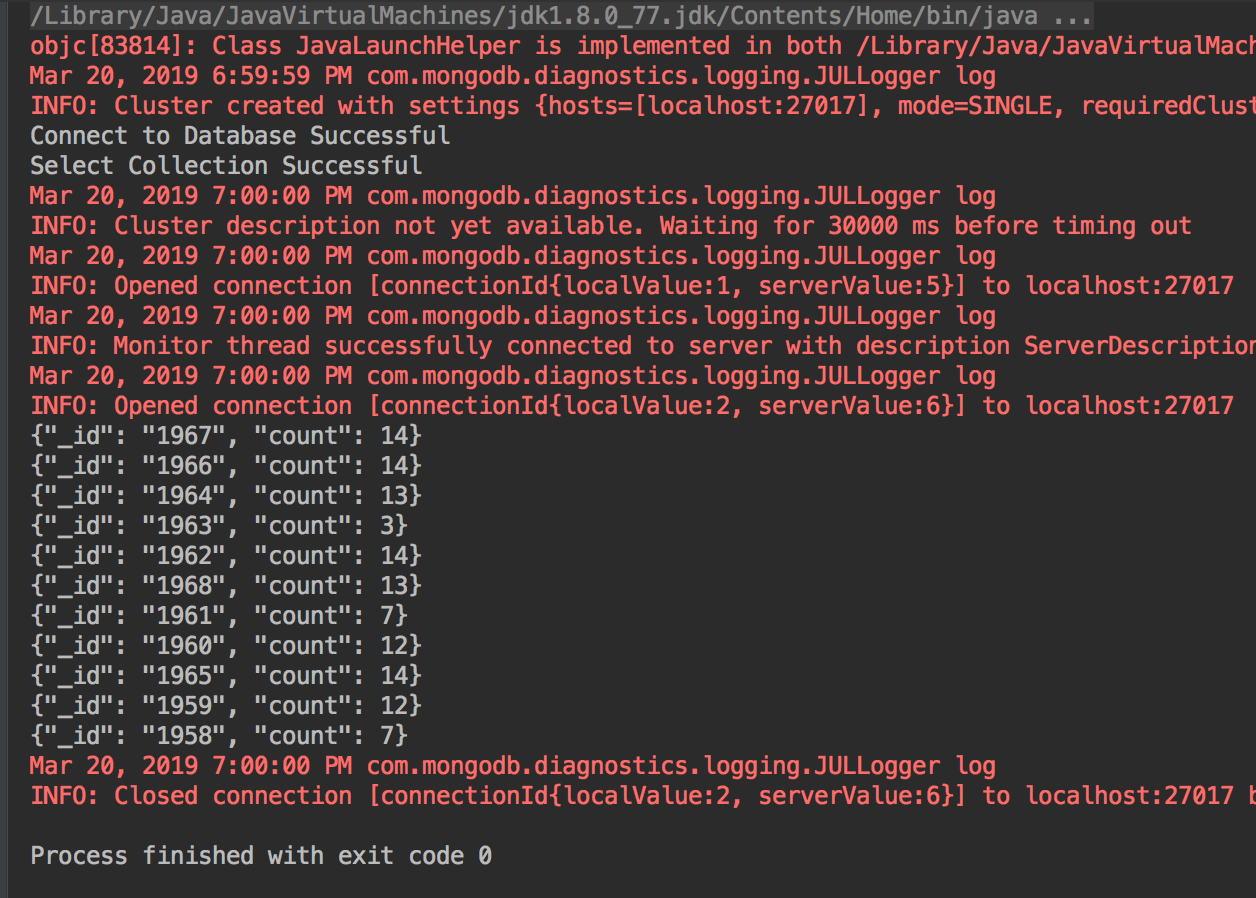
“An Aggie Does Not Lie, Cheat, Or Steal, Nor Tolerate Those Who Do”

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1.

1. Fine the player id given a player name. Turn in the results for Johnny Manziel.
   1. SELECT player\_id FROM profiles WHERE name = “Johnny Manziel”
   2. db.profiles.find({name: “Johnny Manziel”}, {player\_id: 1})
   3. 
2. For a given player\_id, find the games in which that player appeared. Turn in results for id = 14013
   1. SELECT \* FROM games WHERE player\_id=*player\_id*
   2. db.games.find({player\_id: 14013}, {date: 1, game\_number: 1, player\_team\_score:1, opponent\_score: 1})
   3. Only displayed date, game number and the scores of the teams to remove clutter from the results
   4. 
3. Use the Mongo aggregation pipeline to output the number of games played in by Tom Brady vs Terry Bradshaw
   1. SELECT \* FROM (results for Tom Brady) UNION (results for Terry Bradshaw)
   2. Tom Brady player\_id: 2240
   3. Terry Bradshaw player\_id: 2230
   4. 
4. Use Map/reduce to print out the number of career TDs scored by Jim Brown vs Emmitt Smith
   1. SELECT sum(BrownTDs) FROM (SELECT rushing\_touchdowns + receiving\_touchdowns AS BrownTD FROM games WHERE player\_ID=Jim\_Brown\_ID)
   2. Jim Brown
      1. db.games.aggregate([{$match:{player\_id:2648}},{"$group" : {\_id:"$player\_id",BrownpTDs:{$sum:"$receiving\_touchdowns" },BrownrTDs:{$sum:"$rushing\_touchdowns" }}},{"$project" : {\_id:"$player\_id", BrownTDs:{$sum:["$BrownpTDs","$BrownrTDs"] }}}])
   3. 
   4. Emmitt Smith
      1. db.games.aggregate([{$match:{player\_id:2648}},{"$group" : {\_id:"$player\_id",BrownpTDs:{$sum:"$receiving\_touchdowns" },BrownrTDs:{$sum:"$rushing\_touchdowns" }}},{"$project" : {\_id:"$player\_id", BrownTDs:{$sum:["$BrownpTDs","$BrownrTDs"] }}}])
   5. 

2.

1. For each year played, list a count of games in which John David Crow played.
   1. SELECT year, COUNT(\*) FROM profiles NATURAL JOIN games WHERE name= “John David Crow” GROUP BY year;
   2. db.games.aggregate([{$match:{player\_id:4847}},{$group:{\_id:"$year",count:{$sum:1}}}])
   3. 
   4. 
2. In 1990, in what games and what Seattle players had interceptions in a game?
   1. SELECT games.game\_number, profiles.player\_id FROM games, profiles WHERE game.defense\_interception <>0 AND games.team= “SEA” AND games.year= “1990” AND games.player\_id = profiles.player\_id;
   2. db.games.aggregate([{$match:{year:"1990", team: "SEA", defense\_interceptions:{$ne:0}}},  {"$project":{\_id:0, player:"$player\_id", gameNum:"$game\_number"}}])
   3. 
   4. 