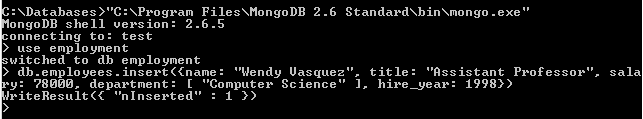
1. Create a new MongoDB database called employment.

|  |
| --- |
| use employment |

2. Insert a new record for Wendy Yasquez into the database and into a collection called employees.

|  |
| --- |
| db.employees.insert({name: "Wendy Vasquez", title: "Assistant Professor", salary: 86000, department: [ "Computer Science" ], hire\_year: 1998}) |

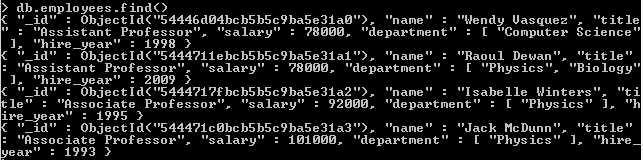


3. Write a JavaScript function to insert new professors into the employees collection.

|  |
| --- |
| function insertProfessor(name, title, salary, departments, hireyear) {  return db.employees.insert({name: name, title: title, salary: salary, department: departments, hire\_year: hireyear});  } |

4. Use this function to insert the records for Raoul Dewan, Isabelle Winters, and Jack McDunn.

|  |
| --- |
| insertProfessor("Raoul Dewan", "Assistant Professor", 78000, ["Physics", "Biology"], 2009)  insertProfessor("Isabelle Winters", "Associate Professor", 92000, ["Physics"], 1995)  insertProfessor("Jack McDunn", "Associate Professor", 101000, ["Physics"], 1993) |

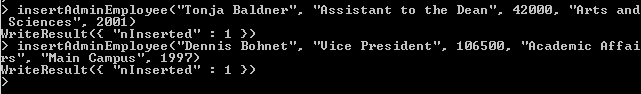


5. Write a JavaScript function to insert new administrative employees into the employees collection.

|  |
| --- |
| function insertAdminEmployee(name, title, salary, division, location, hireyear) {  return db.employees.insert({name: name, title: title, salary: salary, division: division, location: location, hire\_year: hireyear});  } |

6. Use this function to insert the records for Tonja Baldner and Dennis Bohnet.

|  |
| --- |
| insertAdminEmployee("Tonja Baldner", "Assistant to the Dean", 42000, "Arts and Sciences", null, 2001)  insertAdminEmployee("Dennis Bohnet", "Vice President", 106500, "Academic Affairs", "Main Campus", 1997) |



7. Show the code that will return all employees with salaries less than $90,000.

|  |
| --- |
| var lt90 = {salary: {$lt:90000}}  db.employees.find(lt90) |

8. Show the code that will return all professors with salaries less than $90,000.

|  |
| --- |
| var lt90Dept = { $and : [ {salary: {$lt : 90000} }, {department: {$exists : true} } ] }  db.employees.find(lt90Dept) |

