This submission template is a convenient document for you to provide the screenshots and explanations for Assignment 5.1. This submission template is intended to be used in conjunction with the Assignment 5.1 Instructions document. The instructions document illustrates how to correctly execute each SQL construct, explains important theoretical and practical details, and contains the complete set of instructions on how to complete this lab.

**Name**:

**Date:**

**Section 1**

**Question 1a):** What would you implement as a 1:Many documents through linking? List two document names and what is the link between them. (short answer).

**Question 1b):** What would you implement as a 1:Few document through embedding List the document name and what would be embedded within the document. (short answer).

**Question 1c):** What would you implement as a 1:1 relationship through embedding within the movie rental database? (short answer)

**Section 3**

**Question 3a):**

Import the rest of the movie people by using either the copy paste method or importing the JSON document.

Paste screenshot showing both copy and paste or importing the JSON document and the inserted data result. The screenshot of the result should show how many total documents are in the movie-person collection.

**Section 6**

**Question 6a):** Provide screen-shots of both dvd and member collections loaded with the documents from the provided JSON files, make sure to show the record counts.

**Question 6b):** Examine the DVD document and specify how the Genre and Rating relationship was implemented, was it through embed or linking? What is the cardinality of these relationships and does it correctly support the design choice? (short answer)

**Question 6c**): How are Member, DVD and rental document related? (through embdding or linking, explain your answer brifly)

**Question 6d):** Provide a screenshot of the populated rental collection

**Question 6e):** Examine the dvd collection and movie-person collection. We have not established a relationship between them. Briefly describe how would you establish the relationship i.e. via linking or embedding and what kind of a relationship is it.

**Question 6f - extra credit):** Create a linked collection for DVD and Movie-Person called movie-person-dvd and populate it.

**Section 7**

**Question 7a):** Find all the rental documents for DVDs that have not been returned. Take a screenshot of the result.

**Question 7b):** Find the first name, last name and email of all the members. Please make sure that the result does not have the \_id field. Take a screenshot of project command the result.

**Question 7c):** Sort the documents in the member collection based on the last name of the members in descending order. Take a screenshot of the sort command and the result.

**Question 7d)** Find 4 documents of the rental collection where the DVD is not returned by the member. Take a screenshot of the result and attach it to the final submission.

**Section 8**

**Question 8a):** Perform a left outer join between the rental and member collection and name the resulting collection as **rental\_member\_join**. Take a screenshot of the JSON structure of the last document (i.e. 11th document) from the rental\_member\_join collection. Please expand all the fields so that the values are visible clearly.

**Extra credit questions:**

**Question 8b):** We want to access the dvd and member data together for each rental document. Which collections would you join to achieve this? Perform the join and take a screenshot of the resulting collection.

**Question 8c):** Examine the resulting collection from Question 9. Briefly describe the problem with this collection.

Use the **Ask your Facilitator Discussion Board** if you have any questions regarding the how to approach this assignment.

Save your assignment as ***lastnameFirstname\_lassignment5.1.doc*** and submit it in the *Assignments* section of the course.

For help uploading files please refer to the *Technical Support* page in the syllabus.