Lab 10

a-)Considering the following restaurants collection that has information about all restaurants in the USA. Import the data into a local/cloud DB server.

- 1- Add at least 5 restaurants to your collection to test your queries.
- 2- Write a MongoDB query to find the restaurants that does not prepare any cuisine of "American" and their grade score more than 70
- 3- Write a MongoDB query to find the restaurant_id, name, district and cuisine for those restaurants which contains 'Wil' as first three letters for its name.
- 4- Write a MongoDB query to find the restaurant_id, name, district and cuisine for those restaurants which contains 'Reg' as three letters somewhere in its name
- 5- Write a MongoDB query to find the restaurants which belongs to the district "Bronx" and prepared either American or Chinese dish.
- 6- Write a MongoDB query to find the restaurant_id, name, district and cuisine for those restaurants which belongs to the district "Staten Island" Or "Queens" Or "Bronx" Or "Brooklyn".
- 7- Write a MongoDB query to find the restaurant_id, name, district and cuisine for those restaurants which are not belonging to the district "Staten Island" Or "Queens" Or "Brooklyn".
- 8- Write a MongoDB query to find the restaurant_id, name, district and cuisine for those restaurants which achieved a score which is not more than 10.

b-) Create an Express application that implements a Restful Stateless API for an entity called students as following:

```
const students = [{id: 1, name: "Asaad Saad", course: "CS572",grade: 95}]
```

- Write routes for the following CRUD operations and use the proper HTTP verbs (GET one and all, POST, and DELETE).
- Log all requests to a file access.log using morgan middleware.
- For your POST route, assign a custom middleware to verify if a user passes a JSON object that contains id, name, course and grade, otherwise send back an error.