HW 4. Application Development

Submission Instructions
- Include your name on each of your java files.
- Package your files in .zip format for submission.

Assignment
Use JDBC to create the data access layer for the restaurant review application. Use the CREATE TABLE statements from the HW2 solution. Each table will correspond to a simple java class and data access object (DAO) java class. Re-use the JDBC data access layer example for the blog application in Module 7 ([shared folder](#)). Apply the concepts from Module 7.

You should implement the following:
- ConnectionManager.java
    - Re-use the file from the blog application example, and update with your MySQL instance properties.
- Users.java/UsersDao.java
    - DAO methods:
    - public Users create(Users user)
    - public Users getUserByUserName(String userName)
    - public Users delete(Users user)
- CreditCards.java/CreditCardsDao.java
    - DAO methods:
    - public CreditCards create(CreditCards creditCard)
    - public CreditCards getCreditCardByCardNumber(long cardNumber)
    - public List<CreditCards> getCreditCardsByUserName(String userName)
    - public CreditCards updateExpiration(CreditCards creditCard, Date newExpiration)
    - public CreditCards delete(CreditCards creditCard)
- Companies.java/CompaniesDao.java
    - DAO methods:
    - public Companies create(Companies company)
    - public Companies getCompanyByCompanyName(String companyName)
    - public Companies updateAbout(Companies company, String newAbout)
    - public Companies delete(Companies company)
- Restaurants.java/RestaurantsDao.java
    - DAO methods:
    - public Restaurants create(Restaurants restaurant)
    - public Restaurants getRestaurantById(int restaurantId)
    - public List<Restaurants> getRestaurantsByCuisine(Restaurants.CuisineType cusine)
      Note: Define the CuisineType enum in Restuarants.java (see BlogUsers.java for an example).
    - public List<Restaurants> getRestaurantsByCompanyName(String companyName)
    - public Restaurants delete(Restaurants restaurant)
- SitDownRestaurants.java/SitDownRestaurantsDao.java
    - DAO methods:
    - public SitDownRestaurants create(SitDownRestaurants sitDownRestaurant)

- ○ public SitDownRestaurants getSitDownRestaurantById(int sitDownRestaurantId)
  - ○ public List<SitDownRestaurants> getSitDownRestaurantsByCompanyName(String companyName)
  - ○ public SitDownRestaurants delete(SitDownRestaurants sitDownRestaurant)
- TakeOutRestaurants.java/TakeOutRestaurantsDao.java
  - ○ DAO methods:
  - ○ public TakeOutRestaurants create(TakeOutRestaurants takeOutRestaurant)
  - ○ public TakeOutRestaurants getTakeOutRestaurantById(int takeOutRestaurantId)
  - ○ public List<TakeOutRestaurants> getTakeOutRestaurantsByCompanyName(String companyName)
  - ○ public TakeOutRestaurants delete(TakeOutRestaurants takeOutRestaurant)
- FoodCartRestaurants.java/FoodCartRestaurantsDao.java
  - ○ DAO methods:
  - ○ public FoodCartRestaurants create(FoodCartRestaurants foodCartRestaurant)
  - ○ public FoodCartRestaurants getFoodCartRestaurantById(int foodCartRestaurantId)
  - ○ public List<FoodCartRestaurants> getFoodCartRestaurantsByCompanyName(String companyName)
  - ○ public FoodCartRestaurants delete(FoodCartRestaurants foodCartRestaurant)
- Reviews.java/ReviewsDao.java
  - ○ DAO methods:
  - ○ public Reviews create(Reviews review)
  - ○ public Reviews getReviewById(int reviewId)
  - ○ public List<Reviews> getReviewsByUserName(String userName)
  - ○ public List<Reviews> getReviewsByRestaurantId(int restaurantId)
  - ○ public Reviews delete(Reviews review)
- Recommendations.java/RecommendationsDao.java
  - ○ DAO methods:
  - ○ public Recommendations create(Recommendations recommendation)
  - ○ public Recommendations getRecommendationById(int recommendationId)
  - ○ public List<Recommendations> getRecommendationsByUserName(String userName)
  - ○ public List<Recommendations> getRecommendationsByRestaurantId(int restaurantId)
  - ○ public Recommendations delete(Recommendations recommendation)
- Reservations.java/ReservationsDao.java
  - ○ DAO methods:
  - ○ public Reservations create(Reservations reservation)
  - ○ public Reservations getReservationById(int reservationId)
  - ○ public List<Reservations> getReservationsByUserName(String userName)
  - ○ public List<Reservations> getReservationsBySitDownRestaurantId(int sitDownRestaurantId)
  - ○ public Reservations delete(Reservations reservation)
- Inserter.java
  - ○ For each class above: exercise the create, read, update, and delete operations (if the method exists) using the data access object.