Spring Assignment

Create a java based application for **Ticket Management** using Spring and JDBC API as per given details.

**ConnectionProvider class:**

   This class is part of **com.utility** packageand return Connection object whenever it is required.

**MyAspect class:**

   This class is part of **com.aspect** package and contains all the advice methods which

   should execute when a particular JoinPoint executes.

**TicketDao class:**

This class is part of **com.dao** package which act as Data Access Object (DAO) write following   method inside this class

* **public void login(String unm, String pwd)**

This method validate user by retrieving username and password from **Admin\_login** table if user is valid than print all the available train details using **showTrains()** method.

Here you have to display following messages using **MyAspect** class advice method.

* If user is invalid throw an Exception Object and print “Invalid username/password error”.
* After printing the train details print a message **“**No more train details are available **.**
* **public void showTrains()**

This method prints all the trains details using **Train\_details** table.

* **public void bookTicket(int trainno)**

In this method generate a unique ticket id and take input for class(SL/AC) and number of passengers from the keyboard. Other information will be retrieved from **Train\_details** table based on train number. Check if class equals AC than fare will be increased by 200 otherwise fare is unchanged calculate total fare and insert booked ticket details along with other details inside **Ticket\_Details** table and also print on the console.

* **public void cancelTicket(int ticketno)**

This method remove the booked ticket d from **Ticket\_Details** table based on ticket number and prints the refund amount to the passenger.

**The cancelation charge is applicable as below**

* For SL class 50 rupee per passenger
* For AC class100 rupee per passenger

**TicketManagement class:**

      This class is part of **com.service** package here you have to autowire **TicketDao** class

       and declare required methods in order to call TicketDao class methods.

**MainApp class:**

  This class is part of **com.main** package having main method and provides correct interface for calling methods of **TicketManagement** class. Use loop to switch between methods.

**Note: In order to autowire bean use Annotation**

**DB Script**

drop table Admin\_login;

drop table Ticket\_Details;

drop table Train\_Details;

create table Admin\_login(unm varchar2(20),pwd varchar2(20));

insert into  Admin\_login values('admin','admin');

commit;

create table Train\_Details(tNo number primary key,name varchar2(20),source varchar2(20),destination varchar2(20),fare number(7,2));

insert into Train\_Details values(12390,'Lucknow Mail','NDLS','LKO',560.90);

insert into Train\_Details values(12354,'ANVT EXP','ANVT','PNBE',600.00);

insert into Train\_Details values(12394,'Rajdhani','NDLS','Mumbi',2000.90);

commit;

create table Ticket\_Details (ticketid number primary key,class varchar2(20),

source varchar2(20), destination varchar2(20),noOfPsg number,totalAmt number(8,2),tNo number not null,

CONSTRAINT fk\_train

FOREIGN KEY (tNo) REFERENCES Train\_Details(tNo));