# Mariann Szabo-Freund

# Please use this template to turn in your homework 12 assignment

//Paste in **ALL** of your stored procedures here

USE [AutoDealer]

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[procGetBankByRoutingNumber] Script Date: 4/16/2014 11:34:54 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[procGetBankByRoutingNumber]

@RoutingNumber char(9)

AS

BEGIN

SELECT \*

FROM Banks

WHERE Banks.RoutingNumber = @RoutingNumber

END

USE [AutoDealer]

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[procGetMechanicByID] Script Date: 4/16/2014 11:35:35 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[procGetMechanicByID]

@ID int

AS

BEGIN

SELECT \*

FROM Mechanics

WHERE Mechanics.ID = @ID

END

USE [AutoDealer]

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[procGetCarByVehicleID] Script Date: 4/16/2014 11:35:51 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[procGetCarByVehicleID]

@VehicleID char(15)

AS

BEGIN

SELECT \*

FROM Cars

WHERE Cars.VehicleID = @VehicleID

END

USE [AutoDealer]

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[procGetServiceByServiceID] Script Date: 4/16/2014 11:36:49 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[procGetServiceByServiceID]

@ServiceID char(2)

AS

BEGIN

SELECT \*

FROM Services

WHERE Services.ServiceID = @ServiceID

END

USE [AutoDealer]

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[procGetAllSalesTeams] Script Date: 4/17/2014 3:42:43 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

ALTER PROCEDURE [dbo].[procGetAllSalesTeams]

@LeadSalesPersonID int

AS

BEGIN

SELECT \*

FROM SalesTeams

END

//Paste in **ALL** of your data object classes here (the one you added to the database.dataobjects package for this problem)

**package** database.dataobjects;

**public** **class** Bank {

**private** String RoutingNumber;

**private** String BankName = **null**;

**public** **void** setRoutingNumber(String routingNumber) {

RoutingNumber= routingNumber;

}

**public** **void** setBankName(String BankName) {

**this**.BankName = BankName;

}

**public** String getRoutingNumber() {

**return** RoutingNumber;

}

**public** String getBankName() {

**return** BankName;

}

**public** Bank(String RoutingNumber, String BankName){

**this**.RoutingNumber = RoutingNumber;

**this**.BankName = BankName;

}

**public** String toString(){

StringBuffer buf = **new** StringBuffer();

buf.append("Routing Num:\t");

buf.append(getRoutingNumber());

buf.append("\nBank Name:\t");

buf.append(getBankName());

**return** buf.toString();

}

}

**package** database.dataobjects;

**public** **class** Mechanic {

**private** **int** ID;

**private** String FirstName = **null**;

**private** String LastName = **null**;

**private** String StartDate = **null**;

**public** **void** setID(**int** iD) {

ID= iD;

}

**public** **void** setFirstName(String FirstName) {

**this**.FirstName = FirstName;

}

**public** **void** setLastName(String LastName) {

**this**.LastName = LastName;

}

**public** **void** setStartDate(String StartDate) {

**this**.StartDate = StartDate;

}

**public** **int** getID() {

**return** ID;

}

**public** String getLastName() {

**return** LastName;

}

**public** String getFirstName() {

**return** FirstName;

}

**public** String getStartDate() {

**return** StartDate;

}

**public** Mechanic(**int** ID, String LastName, String FirstName, String StartDate){

**this**.ID = ID;

**this**.LastName = LastName;

**this**.FirstName = FirstName;

**this**.StartDate = StartDate;

}

**public** String toString(){

StringBuffer buf = **new** StringBuffer();

buf.append("ID:\t");

buf.append(getID());

buf.append("\nFirst Name:\t");

buf.append(getFirstName());

buf.append("\nLast Name:\t");

buf.append(getLastName());

buf.append("\nStart Date:\t");

buf.append(getStartDate());

**return** buf.toString();

}

}

**package** database.dataobjects;

**public** **class** Car {

**private** String VehicleID;

**private** String Manufacturer = **null**;

**private** String Model = **null**;

**private** String Color = **null**;

**private** **int** Year;

**private** **double** Cost;

**public** **void** setVehicleID(String VehicleiD) {

VehicleID= VehicleiD;

}

**public** **void** setManufacturer(String Manufacturer) {

**this**.Manufacturer = Manufacturer;

}

**public** **void** setModel(String Model) {

**this**.Model = Model;

}

**public** **void** setColor(String Color) {

**this**.Color = Color;

}

**public** **void** setYear(**int** Year) {

**this**.Year = Year;

}

**public** **void** setCost(**double** Cost) {

**this**.Cost = Cost;

}

**public** String getVehicleID() {

**return** VehicleID;

}

**public** String getManufacturer() {

**return** Manufacturer;

}

**public** String getModel() {

**return** Model;

}

**public** String getColor() {

**return** Color;

}

**public** **int** getYear() {

**return** Year;

}

**public** **double** getCost() {

**return** Cost;

}

**public** Car(String VehicleID, String Manufacturer, String Model, String Color, **int** Year, **double** Cost){

**this**.VehicleID = VehicleID;

**this**.Manufacturer = Manufacturer;

**this**.Model = Model;

**this**.Color = Color;

**this**.Year = Year;

**this**.Cost = Cost;

}

**public** String toString(){

StringBuffer buf = **new** StringBuffer();

buf.append("Vehicle ID:\t");

buf.append(getVehicleID());

buf.append("\nManufacturer:\t");

buf.append(getManufacturer());

buf.append("\nModel:\t");

buf.append(getModel());

buf.append("\nColor:\t");

buf.append(getColor());

buf.append("\nYear:\t");

buf.append(getYear());

buf.append("\nCost:\t");

buf.append(getCost());

**return** buf.toString();

}

}

**package** database.dataobjects;

**public** **class** Service {

**private** String ServiceID = **null**;

**private** String ServiceName = **null**;

**private** **int** AllottedTime ;

**private** **double** Cost;

**public** **void** setServiceID(String ServiceiD) {

ServiceID= ServiceiD;

}

**public** **void** setServiceName(String ServiceName) {

**this**.ServiceName = ServiceName;

}

**public** **void** setAllottedTime(**int** AllottedTime) {

**this**.AllottedTime = AllottedTime;

}

**public** **void** setCost(**double** Cost) {

**this**.Cost = Cost;

}

**public** String getServiceID() {

**return** ServiceID;

}

**public** String getServiceName() {

**return** ServiceName;

}

**public** **int** getAllottedTime() {

**return** AllottedTime;

}

**public** **double** getCost() {

**return** Cost;

}

**public** Service(String ServiceID,String ServiceName, **int** AllottedTime, **double** Cost){

**this**.ServiceID = ServiceID;

**this**.ServiceName = ServiceName;

**this**.AllottedTime = AllottedTime;

**this**.Cost = Cost;

}

**public** String toString(){

StringBuffer buf = **new** StringBuffer();

buf.append("Service ID:\t");

buf.append(getServiceID());

buf.append("\nServiceName:\t");

buf.append(getServiceName());

buf.append("\nAllotted Time:\t");

buf.append(getAllottedTime());

buf.append("\nCost:\t");

buf.append(getCost());

**return** buf.toString();

}

}

**package** database.dataobjects;

**public** **class** SalesTeam {

**private** **int** LeadSalesPersonID;

**private** **int** TraineeID;

**public** **void** setLeadSalesPersonID(**int** leadSalesPersonID) {

LeadSalesPersonID= leadSalesPersonID;

}

**public** **void** setTraineeID(**int** TraineeID) {

**this**.TraineeID = TraineeID;

}

**public** **int** getLeadSalesPersonID() {

**return** LeadSalesPersonID;

}

**public** **int** getTraineeID() {

**return** TraineeID;

}

**public** SalesTeam(**int** LeadSalesPersonID, **int** TraineeID){

**this**.LeadSalesPersonID = LeadSalesPersonID;

**this**.TraineeID = TraineeID;

}

**public** String toString(){

StringBuffer buf = **new** StringBuffer();

buf.append("Sales Person ID:\t");

buf.append(getLeadSalesPersonID());

buf.append("\nTrainee ID:\t");

buf.append(getTraineeID());

**return** buf.toString();

}

}

//Paste in ALL of the methods you **added** to the ObjectBuilder class here

//BANK

**public** Bank createBank(ResultSet rs){

Bank a = **null**;

**try**{

String RoutingNumber = rs.getString(DatabaseConstants.*COLUMN\_BANKS\_ROUTINGNUMBER*);

String BankName = rs.getString(DatabaseConstants.*COLUMN\_BANKS\_BANK\_NAME*);

a= **new** Bank(RoutingNumber, BankName);

}**catch** (SQLException e){

e.printStackTrace();

}

**return** a;

}

//MECHANIC

**public** Mechanic createMechanic(ResultSet rs){

Mechanic a = **null**;

**try**{

**int** ID = rs.getInt(DatabaseConstants.*COLUMN\_MECHANIC\_ID*);

String FirstName = rs.getString(DatabaseConstants.*COLUMN\_MECHANIC\_FIRST\_NAME*);

String LastName = rs.getString(DatabaseConstants.*COLUMN\_MECHANIC\_LAST\_NAME*);

String StartDate = rs.getString(DatabaseConstants.*COLUMN\_MECHANIC\_START\_DATE*);

a= **new** Mechanic(ID, FirstName, LastName, StartDate);

}**catch** (SQLException e){

e.printStackTrace();

}

**return** a;

}

//CAR

**public** Car createCar(ResultSet rs){

Car a = **null**;

**try**{

String VehicleID = rs.getString(DatabaseConstants.*COLUMN\_CAR\_VEHICLE\_ID*);

String Manufacturer = rs.getString(DatabaseConstants.*COLUMN\_CAR\_MANUFACTURER*);

String Model = rs.getString(DatabaseConstants.*COLUMN\_CAR\_MODEL*);

String Color = rs.getString(DatabaseConstants.*COLUMN\_CAR\_COLOR*);

**int** Year = rs.getInt(DatabaseConstants.*COLUMN\_CAR\_YEAR*);

**double** Cost = rs.getDouble(DatabaseConstants.*COLUMN\_CAR\_COST*);

a= **new** Car(VehicleID, Manufacturer, Model, Color, Year, Cost);

}**catch** (SQLException e){

e.printStackTrace();

}

**return** a;

}

//SERVICE

**public** Service createService(ResultSet rs){

Service a = **null**;

**try**{

String ServiceID = rs.getString(DatabaseConstants.*COLUMN\_SERVICE\_SERVICE\_ID*);

String ServiceName = rs.getString(DatabaseConstants.*COLUMN\_SERVICE\_SERVICE\_NAME*);

**int** AllottedTime = rs.getInt(DatabaseConstants.*COLUMN\_SERVICE\_ALLOTTED\_TIME*);

**double** Cost = rs.getDouble(DatabaseConstants.*COLUMN\_SERVICE\_COST*);

a= **new** Service(ServiceID, ServiceName, AllottedTime, Cost);

}**catch** (SQLException e){

e.printStackTrace();

}

**return** a;

}

}

//SalesTeams

**public** SalesTeam createSalesTeam(ResultSet rs){

SalesTeam a = **null**;

**try**{

**int** LeadSalesPersonID = rs.getInt(DatabaseConstants.*COLUMN\_SALES\_TEAMS\_LEAD\_SALES\_PERSON\_ID* );

**int** TraineeID = rs.getInt(DatabaseConstants.*COLUMN\_SALES\_TEAMS\_TRAINEE\_ID*);

a= **new** SalesTeam(LeadSalesPersonID, TraineeID);

}**catch** (SQLException e){

e.printStackTrace();

}

**return** a;

}

}

//Paste in ALL of the code you **added** to the DatabaseConstants class here

**public** **static** String *SP\_GET\_BANK\_BY\_ROUTINGNUMBER* = "procGetBankByRoutingNumber";

**public** **static** String *SP\_GET\_MECHANIC\_BY\_ID* = "procGetMechanicByID";

**public** **static** String *SP\_GET\_CAR\_BY\_VEHICLE\_ID*= "procGetCarByVehicleID";

**public** **static** String *SP\_GET\_SERVICE\_BY\_SERVICE\_ID*= "procGetServiceByServiceID";

**public** **static** String *SP\_GET\_ALL\_SALES\_TEAMS* = "procGetAllSalesTeams";

//BANK

**public** **static** String *COLUMN\_BANKS\_ROUTINGNUMBER* = "RoutingNumber";

**public** **static** String *COLUMN\_BANKS\_BANK\_NAME* = "BankName";

//Mechanic

**public** **static** String *COLUMN\_MECHANIC\_ID* = "ID";

**public** **static** String *COLUMN\_MECHANIC\_FIRST\_NAME* = "FirstName";

**public** **static** String *COLUMN\_MECHANIC\_LAST\_NAME* = "LastName";

**public** **static** String *COLUMN\_MECHANIC\_START\_DATE* = "StartDate";

//CAR

**public** **static** String *COLUMN\_CAR\_VEHICLE\_ID* = "VehicleID";

**public** **static** String *COLUMN\_CAR\_MANUFACTURER* = "Manufacturer";

**public** **static** String *COLUMN\_CAR\_MODEL* = "Model";

**public** **static** String *COLUMN\_CAR\_COLOR* = "Color";

**public** **static** String *COLUMN\_CAR\_YEAR* = "Year";

**public** **static** String *COLUMN\_CAR\_COST* = "Cost";

//Service

**public** **static** String *COLUMN\_SERVICE\_SERVICE\_ID* = "ServiceID";

**public** **static** String *COLUMN\_SERVICE\_SERVICE\_NAME* = "ServiceName";

**public** **static** String *COLUMN\_SERVICE\_ALLOTTED\_TIME* = "AllottedTime";

**public** **static** String *COLUMN\_SERVICE\_COST* = "Cost";

//SalesTeams

**public** **static** String *COLUMN\_SALES\_TEAMS\_LEAD\_SALES\_PERSON\_ID* = "LeadSalesPersonID";

**public** **static** String *COLUMN\_SALES\_TEAMS\_TRAINEE\_ID* = "TraineeID";

//Paste in ALL of the code you **added** to your DatabaseController class here

**public** Bank getBankByRoutingNumber(String RoutingNumber){

Bank c = **null**;

ResultSet rs = **null**;

ArrayList<NameValuePair> nvps = **new** ArrayList<NameValuePair>();

nvps.add(**new** NameValuePair(*COLUMN\_BANKS\_ROUTINGNUMBER*, RoutingNumber));

rs = executeStoredProcedure(*SP\_GET\_BANK\_BY\_ROUTINGNUMBER*, nvps);

**try** {

**if** (rs.next()){

c = getObjectBuilder().createBank(rs);

}

} **catch** (SQLException e) {

e.printStackTrace();

}

**return** c;

}

**public** Mechanic getMechanicByID(String ID){

Mechanic c = **null**;

ResultSet rs = **null**;

ArrayList<NameValuePair> nvps = **new** ArrayList<NameValuePair>();

nvps.add(**new** NameValuePair(*COLUMN\_MECHANIC\_ID*, ID));

rs = executeStoredProcedure(*SP\_GET\_MECHANIC\_BY\_ID*, nvps);

**try** {

**if** (rs.next()){

c = getObjectBuilder().createMechanic(rs);

}

} **catch** (SQLException e) {

e.printStackTrace();

}

**return** c;

}

**public** Car getCarByVehicleID(String VehicleID){

Car c = **null**;

ResultSet rs = **null**;

ArrayList<NameValuePair> nvps = **new** ArrayList<NameValuePair>();

nvps.add(**new** NameValuePair(*COLUMN\_CAR\_VEHICLE\_ID*, VehicleID));

rs = executeStoredProcedure(*SP\_GET\_CAR\_BY\_VEHICLE\_ID*, nvps);

**try** {

**if** (rs.next()){

c = getObjectBuilder().createCar(rs);

}

} **catch** (SQLException e) {

e.printStackTrace();

}

**return** c;

}

**public** Service getServiceBySreviceID(String ServiceID){

Service c = **null**;

ResultSet rs = **null**;

ArrayList<NameValuePair> nvps = **new** ArrayList<NameValuePair>();

nvps.add(**new** NameValuePair(*COLUMN\_SERVICE\_SERVICE\_ID*, ServiceID));

rs = executeStoredProcedure(*SP\_GET\_SERVICE\_BY\_SERVICE\_ID*, nvps);

**try** {

**if** (rs.next()){

c = getObjectBuilder().createService(rs);

}

} **catch** (SQLException e) {

e.printStackTrace();

}

**return** c;

}

**public** SalesTeam getAllSalesTeams(String LeadSalesPersonID){

SalesTeam c = **null**;

ResultSet rs = **null**;

ArrayList<NameValuePair> nvps = **new** ArrayList<NameValuePair>();

nvps.add(**new** NameValuePair(*COLUMN\_SALES\_TEAMS\_LEAD\_SALES\_PERSON\_ID*, LeadSalesPersonID));

rs = executeStoredProcedure(*SP\_GET\_ALL\_SALES\_TEAMS*, nvps);

**try** {

**if** (rs.next()){

c = getObjectBuilder().createSalesTeam(rs);

}

} **catch** (SQLException e) {

e.printStackTrace();

}

**return** c;

}

//Paste in ALL of the code you **added** to the StoredProcedureTester class here:

//Test the getBankByRoutingNumberD() method

System.*out*.println("\t");

System.*out*.println("Testing getBankByRoutingNumber() stored procedure");

Bank a = dbc.getBankByRoutingNumber("053112712");

System.*out*.println(a);

//Test the getMechanicByID() method

System.*out*.println("\t");

System.*out*.println("Testing getMechanicByID() stored procedure");

Mechanic m = dbc.getMechanicByID("2");

System.*out*.println(m);

//Test the getCarByVehicleId() method

System.*out*.println("\t");

System.*out*.println("Testing getCarByVehicleId() stored procedure");

Car car = dbc.getCarByVehicleID("CIX452LCA824J ");

System.*out*.println(car);

//Test the getServiceByServiceId() method

System.*out*.println("\t");

System.*out*.println("Testing getServiceByServiceID() stored procedure");

Service ser = dbc.getServiceBySreviceID("OC");

System.*out*.println(ser);

//Test the getSalesTeams() method

System.*out*.println("\t");

System.*out*.println("Testing getSalesTeams() stored procedure");

SalesTeam st = dbc. getAllSalesTeams("");

System.*out*.println(st + "\t");

//Paste in the output generated by running your StoredProcedureTester class here (should include output for ALL of the problems from the homework, including the optional bonus question):

Testing getCustomerByID() stored procedure

ID: 2

First Name: Sherry

Last Name: Traylor

Testing getBankByRoutingNumber() stored procedure

Routing Num: 053112712

Bank Name: Aquesta

Testing getMechanicByID() stored procedure

ID: 2

First Name: Thompson

Last Name: Buck

Start Date: 2010-03-15

Testing getCarByVehicleId() stored procedure

Vehicle ID: CIX452LCA824J

Manufacturer: Chevrolet

Model: Tahoe

Color: Orange

Year: 2003

Cost: 10993.0

Testing getServiceByServiceID() stored procedure

Service ID: OC

ServiceName: Oil Change

Allotted Time: 30

Cost: 29.95

Testing getSalesTeams() stored procedure

Sales Person ID: 1

Trainee ID: 2