1.The project should be written using PHP and MySQL.

Partly done

2.You may add css and/or javascript, but the emphasis in this course is on database programming.

Done

3.Include at least one structural change to the database using DDL.  (Create, Alter, Drop)

Done

4.Provide the INSERT SQL for initially populating the database.

Done

5,Include at least one INSERT that will occur during the execution of the application.  This will most likely be as the result of a transaction or user that should be added to the database.

Done in the Processnewuser.php

$sql = 'INSERT INTO member SET

UserName = :uname,

UserPassword = :pwdhash,

MemberAddress = :maddress,

MemberCity = :mcity,

MemberState = :mstate,

MemberZipcode = :mzipcode,

PhoneNumber = :pnum,

MStatusID = :mstatus';

$s = $pdo->prepare($sql);

$s->bindValue(':uname', $username);

$s->bindValue(':pwdhash', $passwordhash);

$s->bindValue(':maddress', $address);

$s->bindValue(':mcity', $city);

$s->bindValue(':mstate', $state);

$s->bindValue(':mzipcode', $zipcode);

$s->bindValue(':pnum', $phonenumber);

$s->bindValue(':mstatus', $MStatusID);

$s->execute();

6,Include at least on DELETE

DELETE FROM supplier WHERE `VendorNumber`=80814;

7.Include at least one simple SELECT SQL statement.

List the titel ann author of the book which keywords is “Design”

SELECT `Title`,`Author`,`KeyWords` FROM book WHERE `KeyWords`='Design';

8,Inlcude at least one SELECT using an aggregate function.

Calculate the total quantiles of the book with the ISBN= '9780321884497'

SELECT `ISBN`, SUM(`Quantity`) AS totalQty FROM supplies WHERE `ISBN`= '9780321884497';

9,Include at least one SELECT using a compound condition

List the books which are published after the year 2010 and in the Database category

SELECT \* FROM book WHERE `PublishedDate`> '2010' AND `KeyWords`= 'Database'

10.Include at least one JOIN query.  This can be an inner or outer join.  It will be probably be an inner join.

List the vendor name of each book with a certain ISBN

SELECT `ISBN`,`VendorNumber`,`VendorName`FROM supplies JOIN supplier USING(`VendorNumber`)

11.Extra credit:  use a correlated subquery.

Not done yet

List the order number and order quantity for all customer orders for which the order quantity   
is greater than the average order quantity of that product:

12,Include at least one subquery.

Find members who have not borrow any books

SELECT MembershipID, UserName FROM MEMBER WHERE MembershipID NOT IN (SELECT MembershipID from BORROWS);

13,Use a form to collect user data.  Pass variables to the next page (or postback) using POST.

Done in the newUser.php and Processnewuser.php

14,Use one GET to pass data to another page.

Done in memberpage.php to get an action

15.Populate a field on a form or table from the database.

Done in listAavailablebook.php

16.Login and password using bcrypt.

Done

17.Check for empty data fields.

Done in newUser.php

18.Implement one trigger.  Demonstrate what happens when it is violated.

Done in return book function

19.Implement referential intergrity.  Demonstrate what happens when it is violated.

Couldn’t delete a member from the database when he hasn’t returned the books he borrowed or hasn’t paid the fee. It’ll give an foreign\_key constrain violated

20.Implement one transaction.  Demonstrate a commit and a rollback.

Done in ‘Borrow a book’ function