Student 1, ID: 978082   Name: Samuel Mocock   Contribution: 100   %
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------ On removing this section, you observe the restriction imposed on this CW ----------------
Electronic Submission to Canvas.
For PartA, please use separate Canvas submission link. *This is for PartB and ONE PDF* submission only.
Important! There is an *10*-page limit (*A4*) for PartB*,* with a minimum font size: 10 for Arial font (11 for Times New Roman). The minimum font size applies to *all* tables, images, screenshots, and handwriting in your pdf. Submitted pdf will be printed in 2-up format for manual marking and feedback. If your text is smaller than the minimum font size, or is incomprehensible, *NO* marks will be given.

Important! you must use the answer sheet (docx) provided, and convert it into *pdf* before submission. Non pdf format (e.g. doc, docx files) will not be marked. PDF will be **automatically chopped** to the specified page limit, and no further marks will be given *beyond* the page limit.

Read: Canvas > CS-250 > Modules > Soft Skills (Important to Assessments) > Reasons for page limit.pdf
----

Task 1:
Question 1:

```sql
SELECT trans.orderid,
       userid,
       ( orders.totalpay - Sum(unitprice * quantity) ) AS refund
FROM   orders,
       trans,
       books
WHERE  trans.orderid = orders.orderid
       AND trans.isbn = books.isbn
GROUP  BY trans.orderid,
          userid
HAVING Avg(orders.totalpay) > Sum(books.unitprice * quantity)
ORDER  BY refund ASC;
```

```
+---------+---------+---------+
| orderid | userid  | refund  |
+---------+---------+---------+
|     102 | 112637  |    2.00 |
|     125 | 136368  |    5.00 |
+---------+---------+---------+
2 rows in set (0.053 sec)
```

Question 2:

```sql
SELECT userid,
       Avg(rating) AS AvgRating
FROM   bookratings
GROUP  BY userid
HAVING Count(*) > 100
EXCEPT
SELECT t1.userid,
       avgrating1
FROM   (SELECT userid,
               Avg(rating) AS avgrating1
        FROM   bookratings
        GROUP  BY userid
        HAVING Count(*) > 100) AS t1,
       (SELECT userid,
               Avg(rating) AS avgrating2
        FROM   bookratings
        GROUP  BY userid
        HAVING Count(*) > 100) AS t2
WHERE  avgrating1 < avgrating2;
```

```
MariaDB [cw2]> SELECT userid,
    ->         Avg(rating) AS AvgRating
    -> FROM    bookratings
    -> GROUP   BY userid
    -> HAVING Count(*) > 100
    -> EXCEPT
    -> SELECT t1.userid,
    ->        avgrating1
    -> FROM   (SELECT userid,
    ->                Avg(rating) AS avgrating1
    ->          FROM    bookratings
    ->          GROUP   BY userid
    ->          HAVING Count(*) > 100) AS t1,
    ->        (SELECT userid,
    ->                Avg(rating) AS avgrating2
    ->          FROM    bookratings
    ->          GROUP   BY userid
    ->          HAVING Count(*) > 100) AS t2
    -> WHERE   avgrating1 < avgrating2;
+--------+-----------+
| userid | AvgRating |
+--------+-----------+
|  31159 |    3.7578 |
|  95359 |    3.7578 |
+--------+-----------+
2 rows in set (0.029 sec)
```

Task 2:

```html
<html>

<head>
    <title>HomePage</title>
    <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
    <script src="//cdnjs.cloudflare.com/ajax/libs/list.js/1.5.0/list.min.js"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/ace/1.4.12/ace.js" ></script>
    <script  src="script.js" >  </script>
    <script  src="hello.js" >  </script>
    <link rel="stylesheet" href="styles.css">
<head>



<body>


<header>
    <h1>This is amazon order detail</h1>
</header>



 <main>
    <form action="#" method="POST" >
        <label for="fname">UserID:</label><br>
        <input type="text" id="userid" name="userid" value="<?php echo $_POST['userid'
]  ?>"><br>
        <button id="submit" > Submit </input>
      </form>
</main>


    <?php
            ini_set('display_errors',1);
            $dbServer = "localhost";
            $dbUsername = "root";
            $dbPassword = "root";
            $dbName = "test";

            $conn = mysqli_connect($dbServer,$dbUsername,$dbPassword,$dbName);


            function getUserDetailFromDatabase($userid){
```

```php
        $dbServer = "localhost";
        $dbUsername = "root";
        $dbPassword = "root";
        $dbName = "test";

        $conn = mysqli_connect($dbServer,$dbUsername,$dbPassword,$dbName);


        $sql = "select u.UserID,upper(u.Country) as Country,
        COALESCE((select COUNT(o.OrderID) from orders o where o.UserID=u.UserID),0 ) as orderplaced,
        COALESCE( (select sum(t.Quantity) from orders o
         INNER join trans t on t.OrderID=o.OrderID
         where o.UserID=u.UserID),0) as orderbought
        from users u where u.UserID=$userid";

        $result = mysqli_query($conn,$sql);


        return $result;
    }

    function getOrdersFromDatabase($userid){

        $dbServer = "localhost";
        $dbUsername = "root";
        $dbPassword = "root";
        $dbName = "test";

        $conn = mysqli_connect($dbServer,$dbUsername,$dbPassword,$dbName);

        $sql = "select o.OrderID,o.totalpay,o.Year,
        (( select sum(t.Quantity*b.Unitprice) as totalproduct from trans t
        INNER join books b on t.ISBN=b.ISBN
        where t.OrderID=o.OrderID) - o.totalpay ) as discount
        from orders o
        WHERE
        o.UserID=$userid order by o.Year desc";

        $result = mysqli_query($conn,$sql);

        return $result;
    }

    function getOrdersDetailsFromDatabase($orderid){

        $dbServer = "localhost";
        $dbUsername = "root";
        $dbPassword = "root";
        $dbName = "test";

        $conn = mysqli_connect($dbServer,$dbUsername,$dbPassword,$dbName);
```

```php
            $sql = "SELECT b.Title,b.ISBN,b.Unitprice,b.Genre,b.ImageURL,t.Quantit
y,(t.Quantity*b.Unitprice) as total,
            COALESCE( (select AVG(r.Rating) from bookratings r where r.ISBN=t.ISBN
 ) , 0) as rating
            from trans t
            INNER join books b on b.ISBN=t.ISBN
            where t.OrderID=$orderid";

            $result = mysqli_query($conn,$sql);


            return $result;
        }

        $userid="";
        $placedorder=0;
        $itembought=0;
        $contry='';
        if (isset($_POST['userid'])){
            $userid=$_POST['userid'];
            $userdetail=getUserDetailFromDatabase($userid);
            $placedorder=0;
            $itembought=0;
            $contry='';

            if ($userdetail<>null){
                while ($row = mysqli_fetch_assoc($userdetail)){
                    $placedorder=$row['orderplaced'];
                    $itembought=$row['orderbought'];
                    $contry=$row['Country'];
                }

            }


        }


    ?>

<table>
<thead>
<tr>
<th style="text-align: left; width:80%" >User Details</th>
<th style="width:20%"  >Order Summary </th>
</tr>
</thead>
<tbody>
</tr>
```

```php
<td>UserId:<?php echo $userid ?></td>
<td><?php echo $placedorder ?> Orders Placed</td>
</tr>
</tr>
<td>Contry:<?php echo $contry ?></td>
<td><?php echo $itembought ?> Book Bought</td>
</tr>
</tbody>
</table>

<?php
if (isset($_POST['userid'])){
    $userid=$_POST['userid'];
    $orderlist=getOrdersFromDatabase($userid);

    if ($orderlist<>null){
        while ($row = mysqli_fetch_assoc($orderlist)){
            //Creating the Table for the Orders
            $year=$row['Year'];
            $totalamount=$row['totalpay'];
            $totaldiscount=$row['discount'];
            $orderid=$row['OrderID'];
            $table="";


            $table=$table. "<table>
            <thead>
            <tr style='background-color: gainsboro;'>";

            $table=$table. "<th style='text-
align: left; width:20%'>Order Placed </br> $year </th>
            <th style='text-align: left; width:50%'  >Total </br> $totalamount </th>
            <th style='width:10%'  >Discount </br> $totaldiscount </th>
            <th style='width:20%'  >Order ID </br> $orderid </th>
            </tr>
            </thead>
            <tbody>";

            //Get the Details of the Order
            $orderdetail=getOrdersDetailsFromDatabase($orderid);
            if ($orderdetail<>null){
                while ($roworder = mysqli_fetch_assoc($orderdetail)){
                $imageurl=$roworder['ImageURL'];
                $title=$roworder['Title'];
                $isbn=$roworder['ISBN'];
                $unitprice=$roworder['Unitprice'];
                $genre=$roworder['Genre'];
                $quantity=$roworder['Quantity'];
                $total = $roworder['total'];
                $rating= $roworder['rating'];
                $iniciooof="";
                $stars="";
```

```php
            if ($quantity>1){
                $inicioof="$quantity of ";
            }

            for ($i=0;$i<$rating;$i++){
                $stars=$stars."*";
            }



            $table=$table. "</tr>
                    <td> <img src='$imageurl' alt='Book' width='100' height='100'>
 </td>
                    <td> $inicioof $title </br> $isbn </br> $unitprice </br> $star
s </td>
                    <td>$genre</td>
                    <td>$total</td>
                </tr> ";

            }
        }


        $table=$table. "</tbody>
        </table>";

        echo $table;

        }

    }


}

?>

<footer>
    <p>Thanks for coming to Amazon, CopyRight Group37 <br>
</footer>


</body>

</html>
```

UserID:

30462

Submit

User Details
UserId:30462
Contry:USA

Order Summary
2 Orders Placed
4 Book Bought

Order Placed 2001	Total 16.58		Discount 0.00	Order ID 2197

Captor of My Heart
0451408802
16.58

Romance 16.58

Order Placed 2000	Total 81.73		Discount 0.00	Order ID 1104

The Stone Diaries
01402313X
31.19
****

Fantasy 31.19

Phaedrus and the Seventh and Eighth Letters: And, the Seventh and Eighth Letters (Penguin Classics)
01404472758
22.75

Mystery 22.75

Plainsong (Vintage Contemporaries)
0375705856
27.79
**

Religion 27.79

User Details
UserId:83528
Contry:CANADA

Order Summary
2 Orders Placed
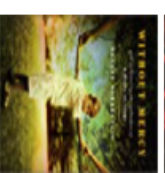8 Book Bought

Order Placed 2005	Total 103.13	Discount 0.00	Order ID 1645

3 of Springwar: A Tale of Eron (Bantam Spectra Book)
0553576347X
22.39 — Romance — 67.17

Without Mercy
0670031887
4.60 — Science — 4.60

Fleeced : A Regan Reilly Mystery (Regan Reilly Mysteries (Hardcover))
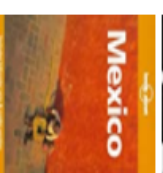0743205812
31.36 — History — 31.36
******

Order Placed 2004	Total 83.88	Discount 0.00	Order ID 2128

North American Indian Designs for Artists and Craftspeople (Dover Pictorial Archive Series)
0486253414
28.40 — Fantasy — 28.40

Son of the Mob
078680769S
22.59 — Fantasy — 22.59

Lonely Planet Mexico (6th ed)
086442429S
32.89 — Drama — 32.89

UserID:

164288

Submit

User Details

UserId:164288

Contry:USA

Order Summary

2 Orders Placed

4 Book Bought

Order Placed 2003	Total 2.00		Discount 9.36	Order ID 2180
	How to Do Everything with Windows XP 007219300X 11.36 **********		General	11.36
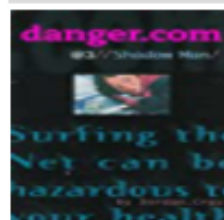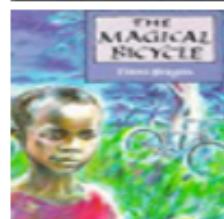
Order Placed 2000	Total 64.80		Discount 0.00	Order ID 2202
	Shadow Man (danger.com) 068981433X 26.81		Science	26.81
	The Magical Bicycle 0749709391 16.87		Romance	16.87
	Feuilles d'herbe 2246404819 21.12		Romance	21.12