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Institute of Digital Technology

Name Sok Chanda

IDTB 090200

Department Computer Science

Group 4

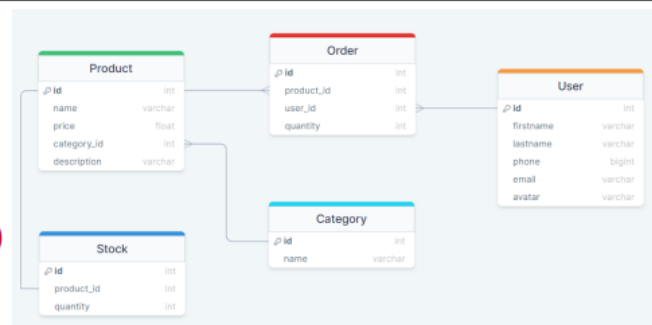
Create a database and its structure.
Connecting to database via PHP MySQLi

EXERCISE 1

- Go to phpMyAdmin (localhost/phpMyAdmin) and create a database called **EcommerceDB**.

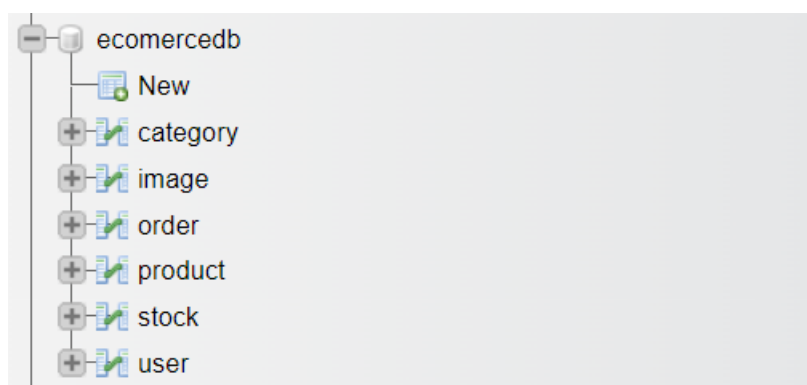
- Then create 5 tables: such as **Product**, **Category**, **Customer**, **Order**, and **Stock**.

(See the schema on the right)



- Write a PHP script (**db-connection.php**) to connect to the database above.

- Alert a message "Connected to database successfully", when the database connection success.
- Alert an error message "Error database connection", when there is an error.



```
<?php
$server = "localhost";
$username = "root";
$password = "@#dAloy123";
$database = "ecomercedb";

$con = new mysqli($server, $username, $password, $database);
if($con->connect_error){

    echo"<script>console.log( 'Connection to database error!')</script>";
}else{
    echo"<script> console.log( 'Connection to database
successfully!')</script>";
}
?>
```

Let's input some data to your database via the phpMyAdmin:

EXERCISE 2

a) Continue from exercise 1, go to localhost/phpMyAdmin and add some sample data as the following to your database:

- **Category**
 - 3 categories such as: Cloth, Kitchen utensils, Electronics.
- **Product**
 - 5 products under each category:
Jeans (cloth), Laptop (electronics), Oven stove (kitchen utensils), TV Samsung (kitchen utensils), and T-shirt (cloth).
- **User**
 - 2 users (let use your name and another one is your friend)
- **Stock**
 - The number of items for each product in the stock is 10.
- **Order**
 - Assume we have an order from the user (YOU), 2 TV, 1 T-shirt and 1 Laptop.



Category table

				id	name
<input type="checkbox"/>	Edit	Copy	Delete	1	Clothes
<input type="checkbox"/>	Edit	Copy	Delete	2	Kitchen Utensils
<input type="checkbox"/>	Edit	Copy	Delete	3	Electronic

Product table

▼ id	name	price	category_id	description	image_id	video_url
lete	1 flip flop	2	1	for men	1	https://youtu.be/NdkHx3W-z1U?si=fsdpdThMbE9UWQswl
lete	2 boots	160	1	this boot for woman only	2	https://youtu.be/fiBvOKmuWKg?si=s6XsqpZrX_OLpnSG
lete	3 Jeans	50	1	for men	3	https://youtu.be/RBumgq5yVrA?si=04ygHanULRXIDepo
lete	4 Laptop	1000	3	for gaming	4	https://youtu.be/Jkj36B1YuDU?si=C87Xnk-0geFZ6aZ5
lete	5 Oven stove	600.45	2	so cheap	5	https://youtu.be/aAurCj1oDDU?si=bu-i6_jh7G_ddzcO
lete	6 TV Samsung	450.99	3	not for kid	6	https://youtu.be/5NgVpzAVgGU?si=IUqG--FLUijzQilM
lete	7 T-shirt	49.99	1	Size L only	7	https://youtu.be/ZQFmRXgeR-s?si=6pxhozt33iXI9Y9p

User table

▼ id	fist_name	last_name	phone	email	avatar	username	password
elele	1 Sok	Chanda	0964009534	sokda106@gmail.com	myProfile	sokchanda	123456
elele	2 chanda	sok	0964109534	sounsok626@gmail.com	myProfile	chandasok	789456

Stock table

Extra options

↔ T →	▼ id	product_id	quantity
<input type="checkbox"/> Edit Copy Delete	1	1	10
<input type="checkbox"/> Edit Copy Delete	2	2	10
<input type="checkbox"/> Edit Copy Delete	3	3	10
<input type="checkbox"/> Edit Copy Delete	4	4	10
<input type="checkbox"/> Edit Copy Delete	5	5	10

Order table

Extra options

↔ T →	▼ id	product_id	user_id	quantity
<input type="checkbox"/> Edit Copy Delete	1	6	1	2
<input type="checkbox"/> Edit Copy Delete	2	7	1	10
<input type="checkbox"/> Edit Copy Delete	3	4	1	1

Read data from database and render in the frontend page.

EXERCISE 3

Let read data from your database and render in bootstrap table and cards.

- Create an **index.php**
- Include a **db-connection.php** written in exercise 1
- Construct a SQL query to select all products and display in a bootstrap table (id, name, price, description) ignoring the category name.

SELECT * FROM product

SELECT * FROM product ORDER BY price

- Create another SQL query to select data from these 2 tables: product and category. Then show products (price, name, category, description) in bootstrap cards.

SELECT * FROM product, category WHERE product.category_id = category.id

SELECT * FROM product AS p, category AS c WHERE p.category_id = c.id

Source code

```
<?php
    include("db-connection.php");
?>
<body>

    <div class="product w3-animate-top">

        <div class="first_pro">
        <h1>Product</h1>
        <table class="table table-bordered table-hover">
            <thead>
                <tr>
                    <th>ID</th>
                    <th>Name</th>
                    <th>Price</th>
                    <th>Description</th>
                </tr>
            </thead>
```

```

        <tbody>
            <?php
                $sql = "SELECT * FROM product";
                $sql = "SELECT * FROM product ORDER BY price";
                $data = $con->query($sql);
                if($data->num_rows > 0){
                    $row = $data->fetch_assoc();
                    while($row){
                        $pro_id = $row["id"];
                        $pro_name = $row["name"];
                        $pro_price = $row["price"];
                        $pro_description = $row["description"];
                        $row = $data->fetch_assoc();
                        echo "<tr>
                            <td> $pro_id </td>
                            <td> $pro_name </td>
                            <td> $pro_price </td>
                            <td> $pro_description </td>
                        </tr>";
                    }
                }
            ?>
        </tbody>
    </table>
</div>
<div class="second_pro">

    <h1>Second table</h1>
    <table class="table table-bordered table-hover">
        <thead>
            <tr>
                <th>Price</th>
                <th>Name</th>
                <th>Category ID</th>
                <th>Description</th>
            </tr>
        </thead>
        <tbody>
            <?php
                $sql2 = "SELECT * FROM category , product WHERE
product.category_id = category.id";
                //$sql2 = "SELECT * FROM product AS p, category AS c WHERE
p.category_id = c.id";

```

```

        $data2 = $con->query($sql2);
        if($data2->num_rows > 0){
            $row2 = $data2->fetch_assoc();
            while($row2){
                $pro_price = $row2["price"];
                $pro_name = $row2["name"];
                $category = $row2["category_id"];
                $pro_description = $row2["description"];
                $row2 = $data2->fetch_assoc();
                echo "<tr>
                <td> $pro_price </td>
                <td> $pro_name </td>
                <td> $category </td>
                <td> $pro_description </td>
                </tr>";
            }
        }

        ?>
    </table>
</div>

    <a class="btn btn-primary" href="add_product" role="button">Add Product</a>
</div>

    <!-- Latest compiled JavaScript -->
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></scrip
t>
</body>
</html>

```

Out put

Product

ID	Name	Price	Description
1	flip flop	2 \$	for men
7	T-shirt	49.99 \$	Size L only
3	Jeans	50 \$	for men
2	boots	160 \$	this boot for woman only
6	TV Samsung	450.99 \$	not for kid
5	Oven stove	600.45 \$	so cheap
4	Laptop	1000 \$	for gaming

Second table

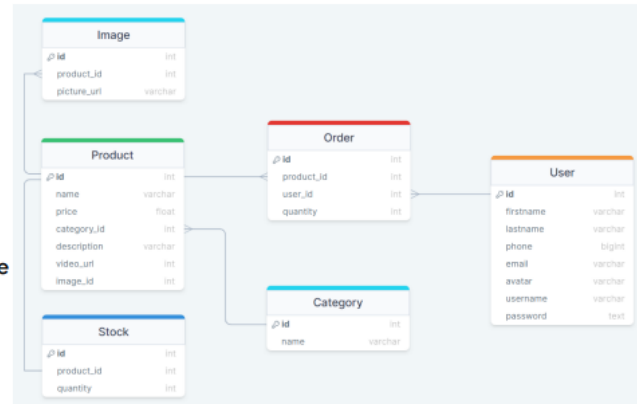
Price	Name	Category ID	Description
2 \$	flip flop	1	for men
160 \$	boots	1	this boot for woman only
50 \$	Jeans	1	for men
49.99 \$	T-shirt	1	Size L only
600.45 \$	Oven stove	2	so cheap
1000 \$	Laptop	3	for gaming
450.99 \$	TV Samsung	3	not for kid

Modify database
Read data from database. Show product detail page.

EXERCISE 4

Let modify the database by adding more columns to the table User

- Go to localhost/phpMyAdmin > Select database > Choose table User. Then add 2 more columns (**username** and **password**). Also, add 2 columns **video_url** and **image_id** to the table product.
- Add 1 more table named **Image** in your database. (see schema on the right)
- Get some sample pictures (URL) and add to the image table representing images of the product
- Now display a list of product in homepage including image, price, category, name.
- Finally, design a detail page product. When the user clicks on any product on the homepage, show user the detail page in order to display detail of the product.



Out put

flip flop
ID 1
Price 2
Category ID 1
Description:for men
Image ID 1

boots
ID 2
Price 160
Category ID 1
Description:this boot for woman only
Image ID 2

Jeans
ID 3
Price 50
Category ID 1
Description:for men
Image ID 3

Laptop
ID 4
Price 1000
Category ID 3
Description:for gaming
Image ID 4

Oven stove
ID 5
Price 600.45
Category ID 2
Description:so cheap
Image ID 5

TV Samsung
ID 6
Price 450.99
Category ID 3
Description:not for kid
Image ID 6

T-shirt
ID 7
Price 49.99
Category ID 1
Description:Size L only
Image ID 7

Source code

```
<?php
    include("db-connection.php");
?>
<body>
    <div class="container w3-animate-left dd">

        <?php
            $sql = "SELECT * FROM product , image WHERE product.image_id =
image.id";
            $sql2 = "SELECT * FROM image"; // WHERE product.image_id =
img.picture_url
            $data = $con->query($sql);
            $data2 = $con->query($sql2);
            if($data->num_rows > 0 && $data2->num_rows){
                $row = $data->fetch_assoc();
                $row2 = $data2->fetch_assoc();
                while($row && $row2){
                    $pro_id = $row["id"];
                    $pro_name = $row["name"];
                    $pro_price = $row["price"];
                    $category_id = $row["category_id"];
                    $pro_description = $row["description"];
                    $img = $row2["picture_url"];
                    $image_id = $row["image_id"];
                    $row = $data->fetch_assoc();
                    $row2 = $data2->fetch_assoc();
                    echo"<div class='card '>
                        <a
href='product_detail.php?id=$pro_id&name=$pro_name&price=$pro_price&category_id=$
category_id&img=$img&desription=$pro_description'>
                            <img src='$img' class='card-img-top' title='Click image to
view detail' width=100px></a>
                            <div class='card-body'>
                                <h5 class='card-title'>$pro_name</h5>
                                <p class='card-text'> ID $pro_id</p>
                                <p class='card-text'>Price $pro_price</p>
                                <p class='card-text'>Category ID $category_id</p>
                                <p class='card-text'>Description:$pro_description</p>
                                <p class='card-text'>Image ID $image_id</p>
                            </div>
                        </div>";
                }
            }
```

```

    }

    ?>

</div>
<!-- Latest compiled JavaScript -->
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></scrip
t>
</body>
</html>

```

Add product button and search function

EXERCISE 5

Add button "Add product" and search box

- Create an **index.php** to display all products
- Add a button, that allows user to add more product, in **index.php** (above the product display)
- Design a form **add_product.php** which consists of product info that allows the user to enter information of a product. When the user submits the form, handle a PHP code to retrieve data from the form. Then insert it into database.
- Add a search box that allows user to search for product based on name or category. When user inputs text and click search, the PHP code **search.php** handles the request and display the results.

```

graph LR
    Image --> Product
    Product --> Stock
    Product --> Order
    Product --> Category
    Order --> User
  
```

Image
 id (int), product_id (int), picture_url (varchar)

Product
 id (int), name (varchar), price (float), category_id (int), description (varchar), video_url (int), image_id (int)

Stock
 id (int), product_id (int), quantity (int)

Order
 id (int), product_id (int), user_id (int), quantity (int)

Category
 id (int), name (varchar)

User
 id (int), firstname (varchar), lastname (varchar), phone (bigint), email (varchar), avatar (varchar), username (varchar), password (text)

Out put

450.99 \$	TV Samsung	3	not for kid
-----------	------------	---	-------------

Add Product

Add Product

Name

Price

Description

Image Link

Video Link

Choose Product Type

Submit

Source code

```
<?php
    include("db-connection.php");
?>
<body>
    <div class="container add w3-animate-opacity">

        <form action="#" method="POST" role="form">
```

```

<legend>Add Product</legend>
<div class="col-lg-6 col-md-6 col-sm-12 col-xs-12">

    <!-- <div class="form-group">
        <label for="">ID</label>
        <input type="text" class="form-control" id=""
placeholder="Input field" name="id" >
    </div> -->
    <div class="form-group">
        <label for="">Name</label>
        <input type="text" class="form-control" id=""
placeholder="Input field" required name="name">
    </div>
    <div class="form-group">
        <label for="">Price</label>
        <input type="text" class="form-control" id="" placeholder="$"
name="price">
    </div>
    <div class="form-group">
        <label for="">Description</label>
        <input type="text" class="form-control" id=""
placeholder="write about product" name="description">
    </div>
</div>
<div class="col-lg-6 col-md-6 col-sm-12 col-xs-12">

    <!-- <div class="form-group">
        <label for="">Image Id</label>
        <input type="text" class="form-control" id=""
placeholder="Input field" name="img_id" >
    </div> -->
    <div class="form-group">
        <label for="">Image Link</label>
        <input type="text" class="form-control" name="image">
    </div>
    <div class="form-group">
        <label for="">Video Link</label>
        <input type="text" class="form-control" name="video">
    </div>
    <div class="form-group">
        <label for="">Choose Product Type</label>
        <select name="category_id" id="input" class="form-control"
required="required">

```

```

        <option value="1">1.Cloth</option>
        <option value="2">2.Kitchen Utensils</option>
        <option value="3">3.Electronics</option>
    </select>
</div>
</div>

    <button type="submit" class="btn btn-primary"
name="submit">Submit</button>
</form>

</div>
<?php
    if(isset($_POST["submit"])){
        //$pro_id = $_POST['id'];
        //$image_id = $_POST['img_id'];
        $pro_name = $_POST['name'];
        $pro_price = $_POST['price'];
        $pro_description = $_POST['description'];
        $category_id = $_POST['category_id'];
        $image = $_POST['image'];
        $video = $_POST['video'];

        $sql = "SELECT * FROM product,image WHERE product.image_id =
image.id";
        $sql = "SELECT * FROM product,image WHERE image.product_id =
product.id";
        $data = $con->query($sql);
        if($data->num_rows > 0){
            $row = $data->fetch_assoc();
            while($row){
                $pro_id = $data->num_rows+1;
                $image_id = $data->num_rows+1;
                $row = $data->fetch_assoc();
            }
        }
        $stmt2 = $con->prepare("INSERT INTO image (id,product_id,picture_url)
VALUES(?,?,?)");
        $stmt2->bind_param("iis",$image_id,$pro_id,$image);
        $stmt2->execute();
        $stmt2->close();

```

```

        $stmt = $con->prepare("INSERT INTO product
(id,name,price,category_id,description,image_id,video_url)
VALUES(?,?,?,?,?,?,?)");
        $stmt->bind_param("isdisis" ,$pro_id,$pro_name, $pro_price,
$category_id, $pro_description,$image_id,$video);
        $stmt->execute();
        $stmt->close();
    }
?>
</body>

```

+search

Out put

Enter name of product						
ID	Name	Price	Category ID	Desription	Image Id	Image
1	flip flop	2	1	for men	1	

Source code

```

<?php
    include("db-connection.php");
?>
<body>

    <div class="search w3-animate-right">
        <form action="#" method="POST">
            <!-- <input type="text" placeholder="Enter name of product"
name="search" required class="form-control"> -->
            <input type="search" name="search" class="form-control" required
placeholder="Enter name of product">
        </form>

        <?php
            if(isset($_POST["search"])) {
                $str = $_POST["search"];
                $stmt = $con->prepare("SELECT * FROM product WHERE name = ?");
                $sql = "SELECT * FROM image";
                $stmt->bind_param("s", $str);
            }
        </?php
    </div>

```

```

$stmt->execute();
$data = $stmt->get_result();
$data2 = $con->query($sql);
if($data->num_rows > 0 && $data2->num_rows>0) {
    $row2 = $data2->fetch_assoc();
    $row = $data->fetch_assoc();
    echo"<table class='table table-bordered table-hover'>
<thead>
    <tr>
        <th>ID</th>
        <th>Name</th>
        <th>Price</th>
        <th>Category ID</th>
        <th>Description</th>
        <th>Image Id</th>
        <th>Image</th>
    </tr>
</thead>
<tbody>";
    while($row) {
        $pro_id = $row["id"];
        $pro_name = $row["name"];
        $pro_price = $row["price"];
        $category_id = $row["category_id"];
        $pro_description = $row["description"];
        $image_id = $row["image_id"];
        $img = $row2["picture_url"];
        $row = $data->fetch_assoc();

        echo "<tr>
            <td>$pro_id</td>
            <td>$pro_name</td>
            <td>$pro_price</td>
            <td>$category_id</td>
            <td>$pro_description</td>
            <td> $image_id </td>
            <td>
                <a
href='product_detail.php?id=$pro_id&name=$pro_name&price=$pro_price&category_id=$
category_id&img=$img&desription=$pro_description'>
                    <img src = '$img' title = 'click image to view
detail' height = 40px></a>
                </td>
            </tr>";
    }
}

```



```
    }  
    }else{  
        echo "<h2 class='not_found'>Name does not Exis</h2>";  
    }  
    $stmt->close();  
}  
$con->close();  
  
?>  
    </tbody>  
</table>  
</div>  
</body>
```

