Project team 7 - Gift Registry

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PROJECT PROPOSAL

The project implements a Gift registry system, where the ProductManager of the shop can add the lists of the items available in the store.

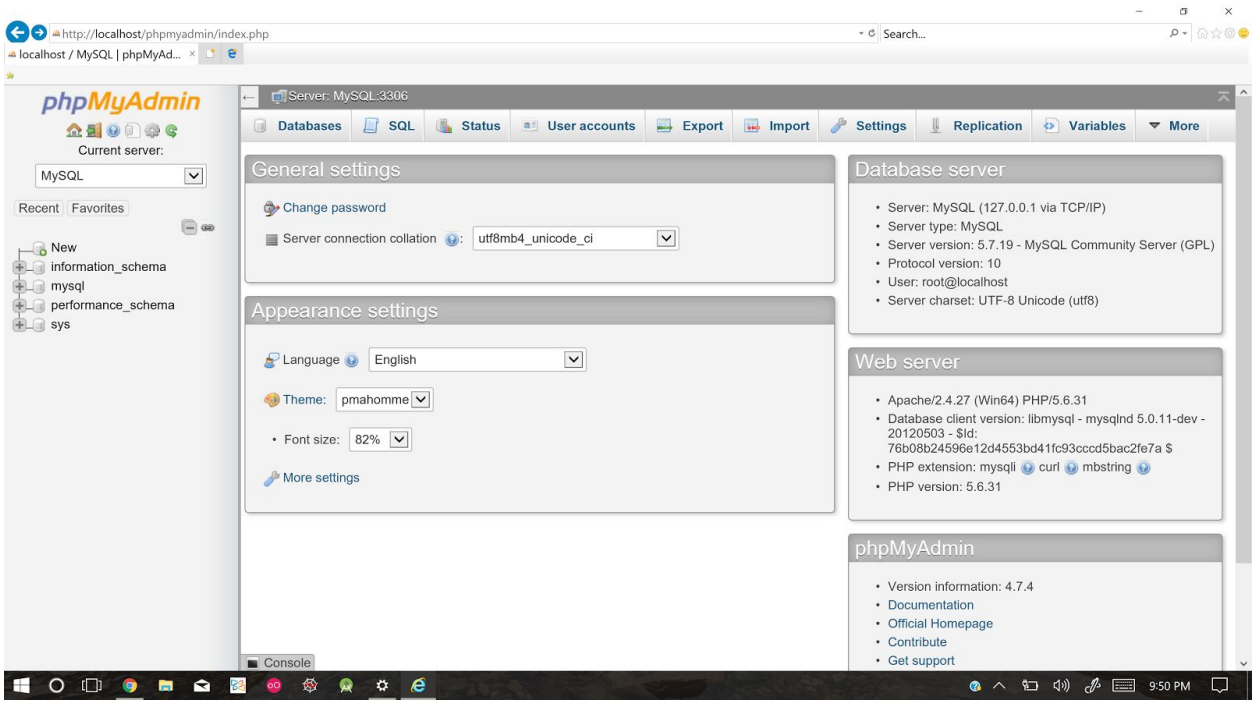
The inviter can add the wish list of the items they actually need and invitees can buy the items for them from the same list. By this gift registry system, inviters will always receive the gifts they need. So the invitees' money will be worth spending!

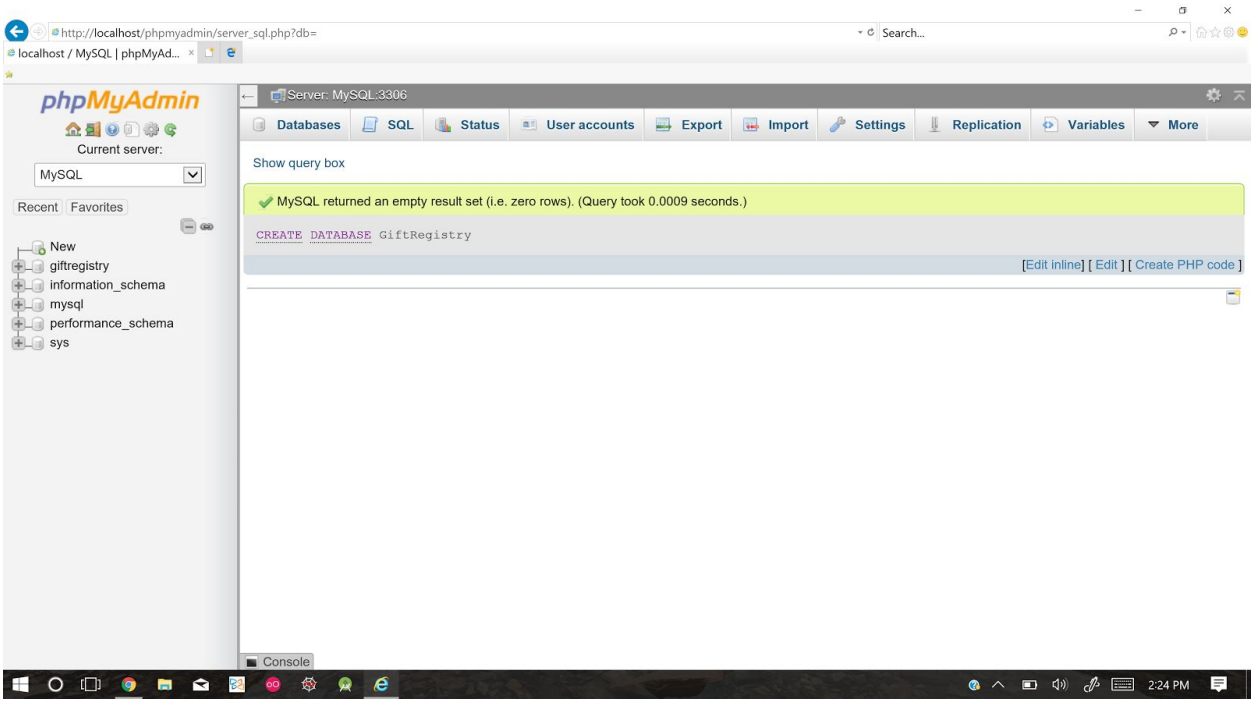
The database takes care of item availability, checks if no two invitees have bought the same gifts. The invitees can choose the gift according their budget.

The Invitees don't have to go to different places to find the buy/chose the gift.

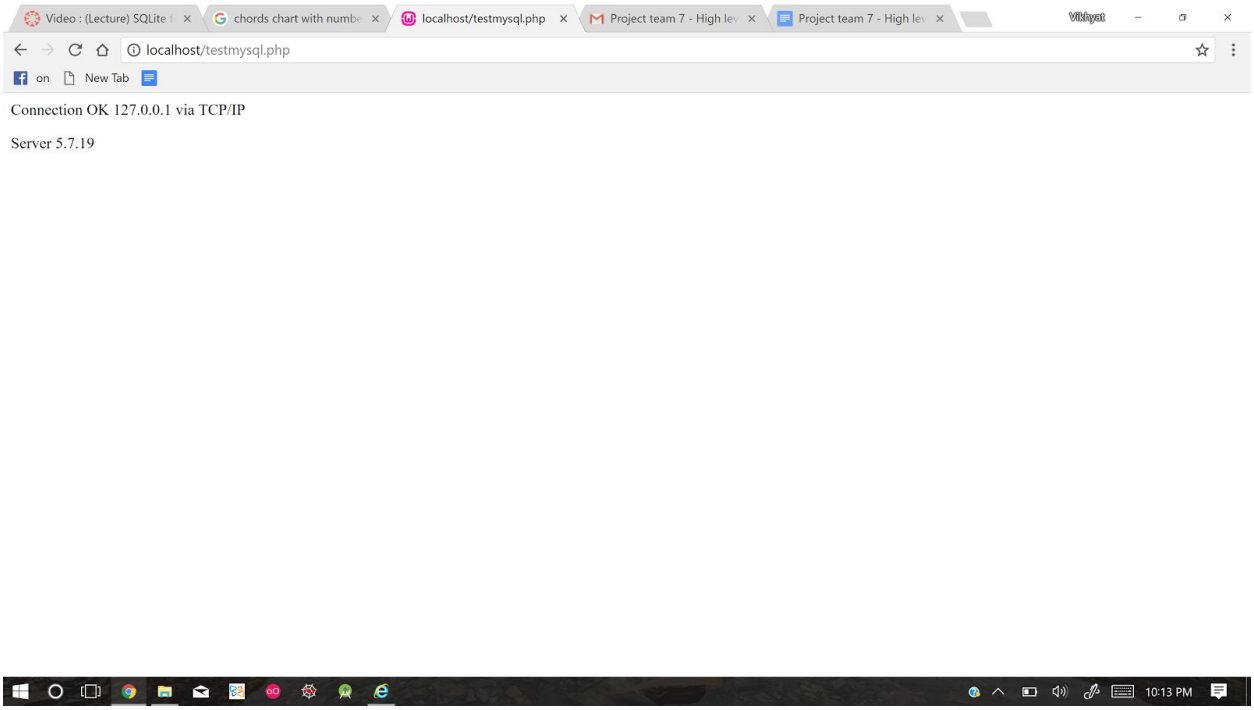
PROJECT ENVIRONMENT

We will be using phpMyAdmin(support for UI) with mySql as the environment setup by WAMP.





Database connection



<?php

$mysqli = new mysqli('127.0.0.1', 'root', '', 'giftregistry');

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if ($mysqli->connect_error) {
   die('Connect Error (' . $mysqli->connect_errno . ') '
        . $mysqli->connect_error);
}
echo '<p>Connection OK '. $mysqli->host_info.'</p>';
echo '<p>Server '.$mysqli->server_info.'</p>';
$mysqli->close();
?>
```

HIGH LEVEL REQUIREMENTS

Initial user roles

User Role	**Description**
Inviter	Inviters who have a registered account with the system. These Inviters can create registry and register their event and add items to their registry. Also they can create invitee list and send a message. They can view the registry list who is buying the items for them.
ProductManager	ProductManager will add/remove the product information. They add or delete product registry category and check the availability of the product in inventory.
Invitee	Invitee who have free access to inviter's registry. They can buy the registry items. Also they add shopping cart and place an order. They can view their order history and delivery status.

Initial user story descriptions

Story ID	Story description
US1	As a ProductManager, I want to sign-up into the application.
US2	As a ProductManager, I want to login in my account.
US3	As an ProductManager, I want to add items so that the Inviter can search the registry items.
US4	As a ProductManager ,I want to add registry product's category tag.
US5	As an Inviter, I want login my account
US6	As an Inviter, I want create my event so that I can make registry with the event.
US7	As an Inviter, I want create my registry so that I can manage my gift items to my registry.
US8	As an Inviter, I want to create invitee list so that I send a message to access my registry.
US9	As an Inviter, I want view my registry list so that I can check what items are ordered.
US10	As an invitee, I want to login into my account.
US10	As an Invitee, I want to view my inviter's registry so that I can check the inventory for availability.
US11	As an Invitee, I want to add an item to my shopping cart from the available registry items.
US12	As an Invitee, I want to place an order for the registry items.
US13	As an Invitee, I want to check my order history and track the delivery status.

HIGH LEVEL CONCEPTUAL DESIGN

Entities:

Product
Inviter
ProductManager

Registry
Invitee
Event
Cart
Order
Category

Relationships:

Inviter creates an event.
Inviter create a registry of their event.
Inviter edits registry.
Inviter lookup order status of their registry products.
Inviter create Invitee list.
ProductManager adds a product
ProductManager tag category to a product.
ProductManager remove product.
Invitee views Inviter's registry.
Invitee add registry items to their shopping cart.
Invitee order registry item.
Invitee lookup their order history and track the order status.

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REQUIREMENTS

Story ID	**Story description**
US1	As a ProductManager, I want to sign-up into the application so that I can access the features.
US2	As a ProductManager, I want to login in my account so that I can manage products to the inventory.
US3	As a ProductManager, I want to add items so that the Inviter can search for the registry items.
US4	As an Inviter, I want to sign-up into the application so that I can create a registry for my event.
US5	As an Inviter, I want login my account so that I can create and manage my created event.
US6	As an Inviter, I want create my event so that I can make registry with the event

CONCEPTUAL DESIGN

Entity: **ProductManager**
Attributes:
- username
- name[composite]
  - first_name
  - middle_name
  - last_name
- password
- address [composite]
  - address_line1
  - address_line2
  - city
  - state
  - zip_code
- email_address
- phone_number

Entity: **Product**
Attributes:
- id
- name
- description
- price
- quantity
- company
- Insert_date

Entity: **Inviter**
Attributes:
- username
- name [composite]
  - first_name
  - middle_name
  - last_name
- phone_number [multi-valued]
  - phone_number1
  - phone_number2
- address[composite]
  - address_line_1
  - address_line_2
  - city

state
Zip_code
email_address

Entity: **Gathering**
Attributes:
id
name
date
time
description
venue[composite]
address_line_1
address_line_2
city
state
zip_code

Relationship: **ProductManager** adds **Product**
Cardinality: One to Many
Participation:
ProductManager has partial participation
Product has total participation

Relationship: **Inviter** creates **Gathering**
Cardinality: One to Many
Participation:
Inviter has partial participation
Event has total participation

LOGICAL DESIGN

Table: **ProductManager**
Columns:

- username
- first_name
- middle_name
- last_name
- password
- address_line1
- address_line2
- city
- state
- zipcode
- email_address
- phone_number1
- phone_number2

Primary key Justification: username will be unique for each Product Manager. So username becomes the primary key of the table ProductManager.

Table: **Product**

- id
- name
- description
- price
- quantity
- company
- insert_date
- pm_username[foreign key;references username of **ProductManager**]

Primary key Justification: id will be unique for each Product. Hence, it becomes the primary key for the table Product.

Foreign key justification: As *username* is the primary key of the table *ProductManager*, it can perfectly connect *ProductManager* table with *Product* table to identify which Product managers are managing the products. So pm_username becomes the foreign key for the Product table.

Table: **Inviter**

username
first_name
middle_name
last_name
password
address_line1
address_line2
city
state
zipcode
email_address
phone_number1
phone_number2

Primary key Justification: username will be unique for each Inviter. Hence, it becomes the primary key for the table Inviter.

*Justification: Add two attribute(*phone_number1, phone_number2*) to represent the multi-valued attribute.*

Table: **Gathering**

id
name
date
time
description
address_line1
address_line2
city
state
zip_code
inviter_username[foreign key;references username of **Inviter**]

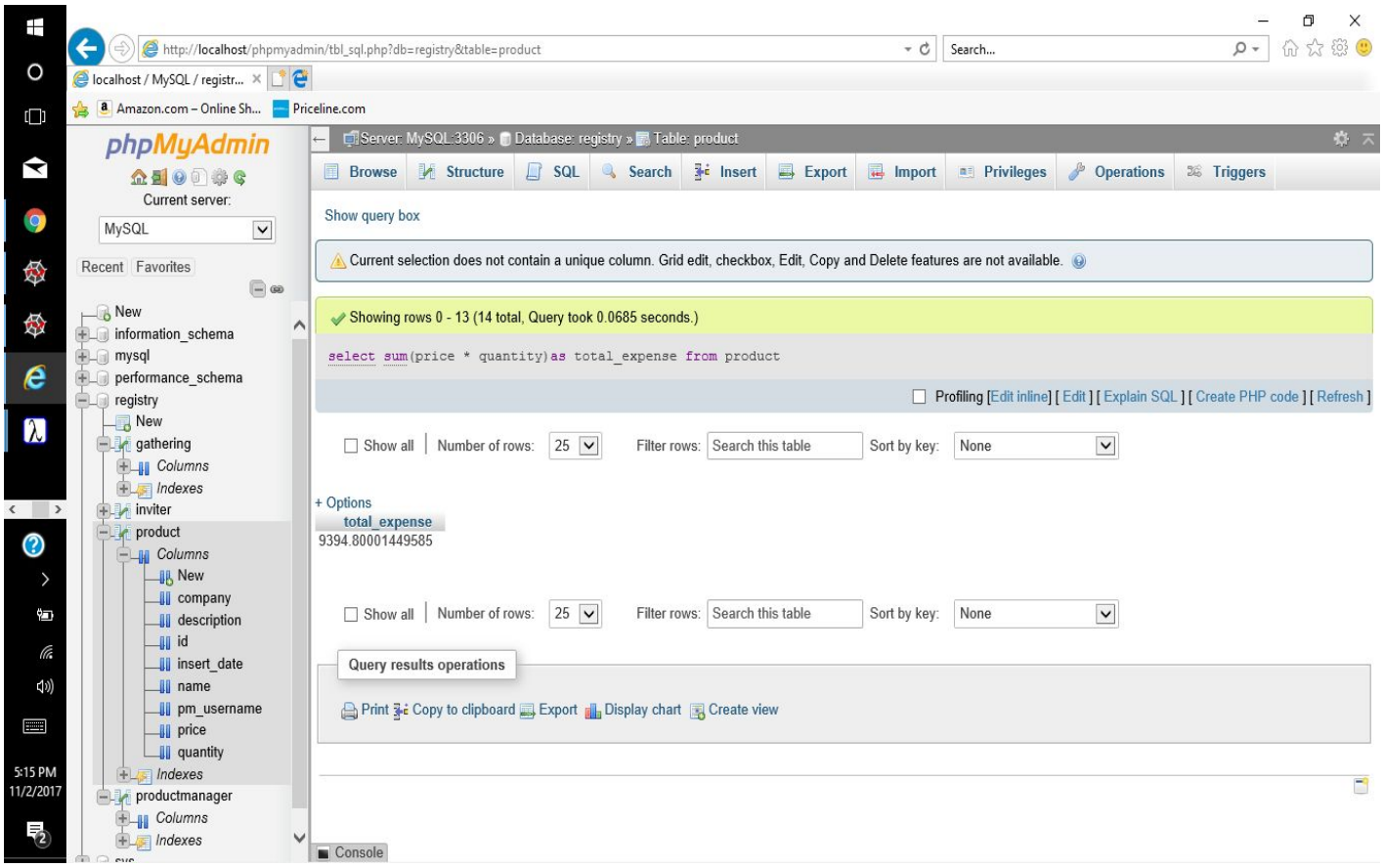
Primary key Justification: id will be unique for each Event. Hence, it becomes the primary key for the table Gathering.

Foreign key justification: As *username* is the primary key of the table *Inviter*, it can perfectly connect Gathering table with *Inviter* table to identify which Inviter has created the event. Hence, inviter_username becomes the foreign key for the table Gathering.

SQL QUERIES

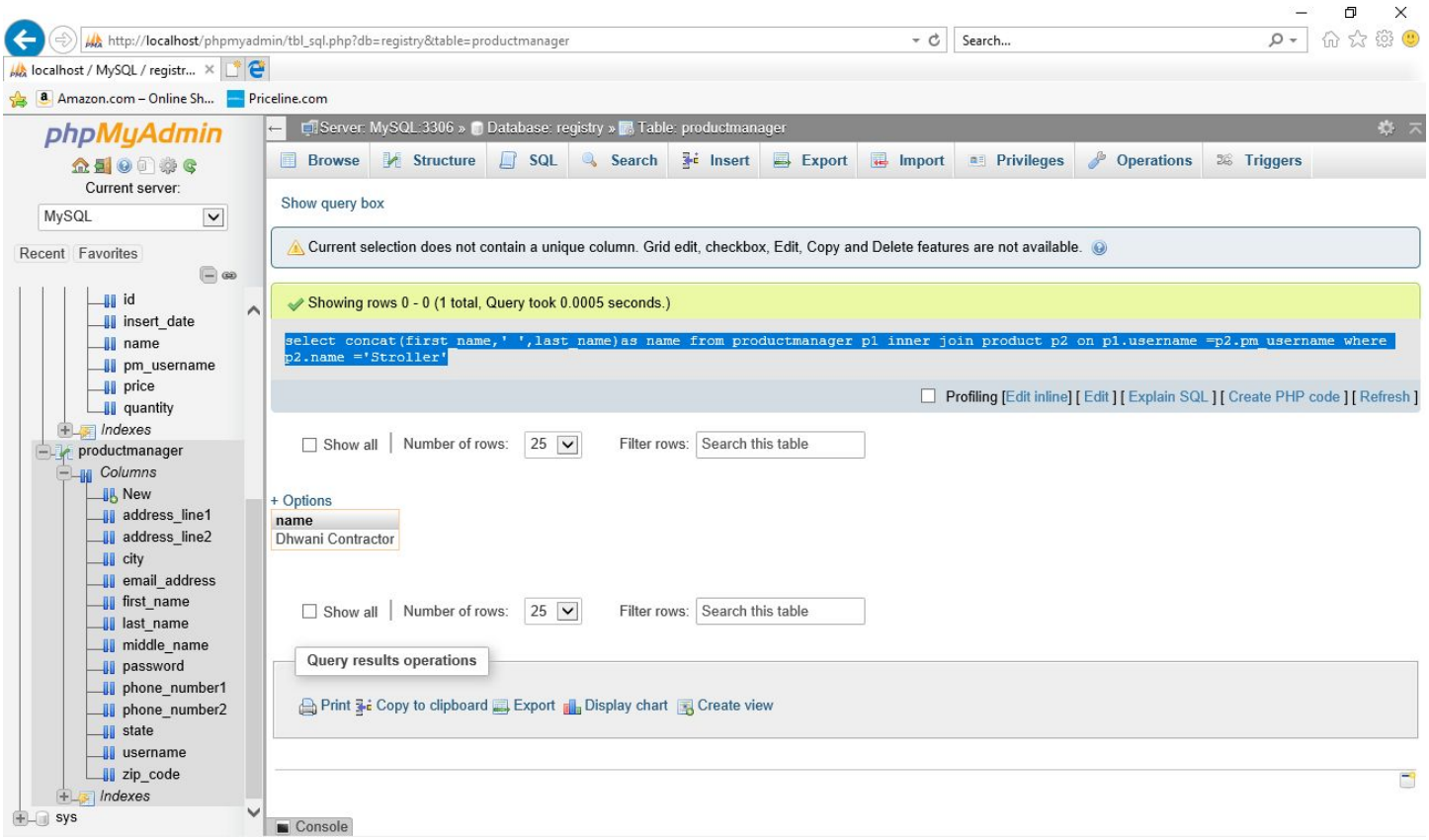
Query 1) To retrieve the total expense required for purchasing the products .

select sum(price * quantity)as total_expense from product



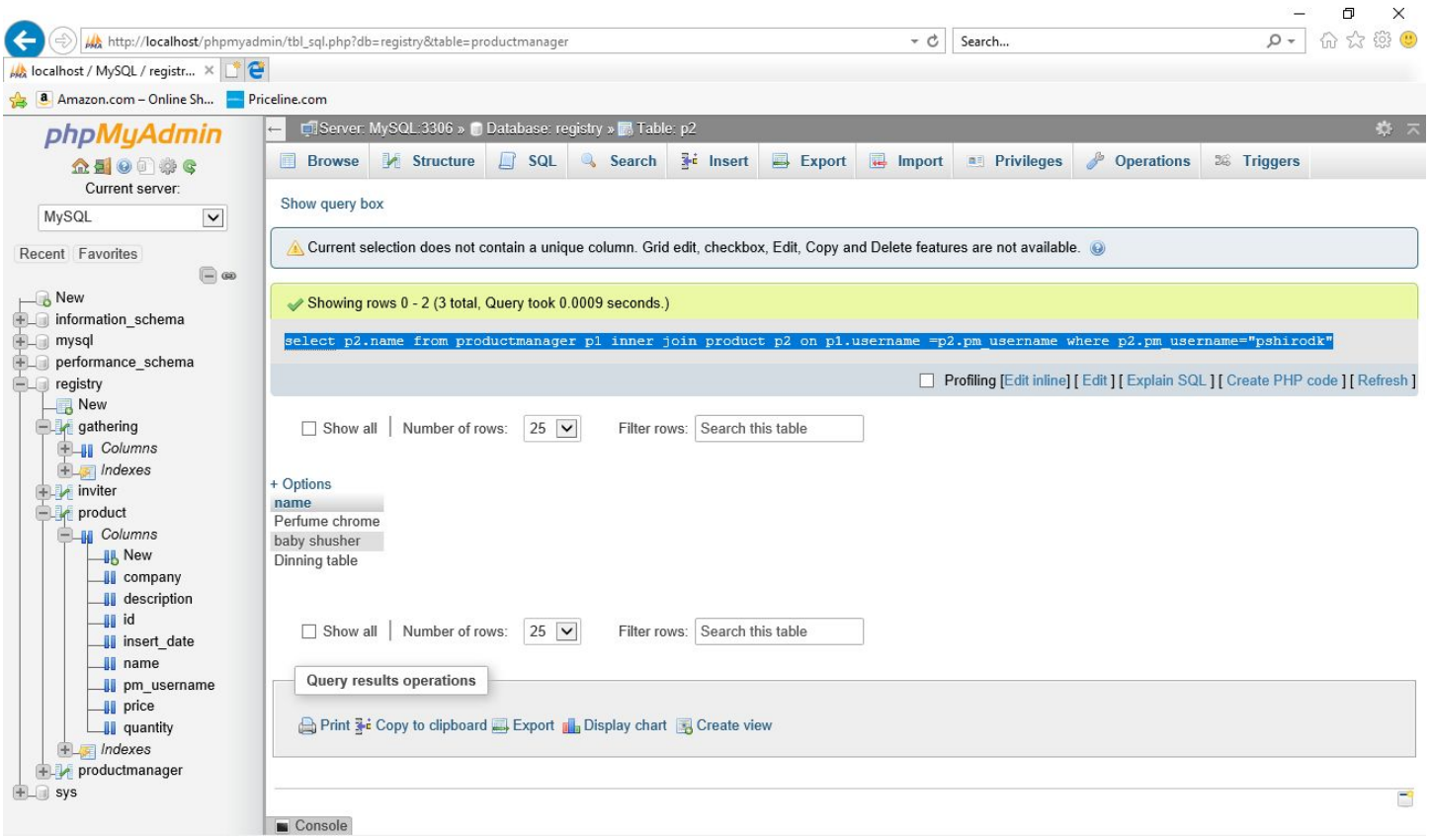
Query 2) To retrieve the Full name of the Product manager who has added the product “Stroller”

select concat(first_name,' ',last_name)as name from productmanager p1 inner join product p2 on p1.username =p2.pm_username where p2.name ='Stroller'



Query 3) List the product names added by the Product manager whose username is “pshirodk”

select p2.name from productmanager p1 inner join product p2 on p1.username =p2.pm_username where p2.pm_username="pshirodk"



Query 4) Write a query which gives Inviter's full name, event name and description added by the inviter whose username is "a6"

select concat_ws(' ',first_name,middle_name,last_name)as "inviter name ",name ,description from gathering g inner join inviter i on g.inviter_username=i.username where i.username= "a6"