**Week – 7**

**Hands on Lab Questions**

1. **Table: Students**

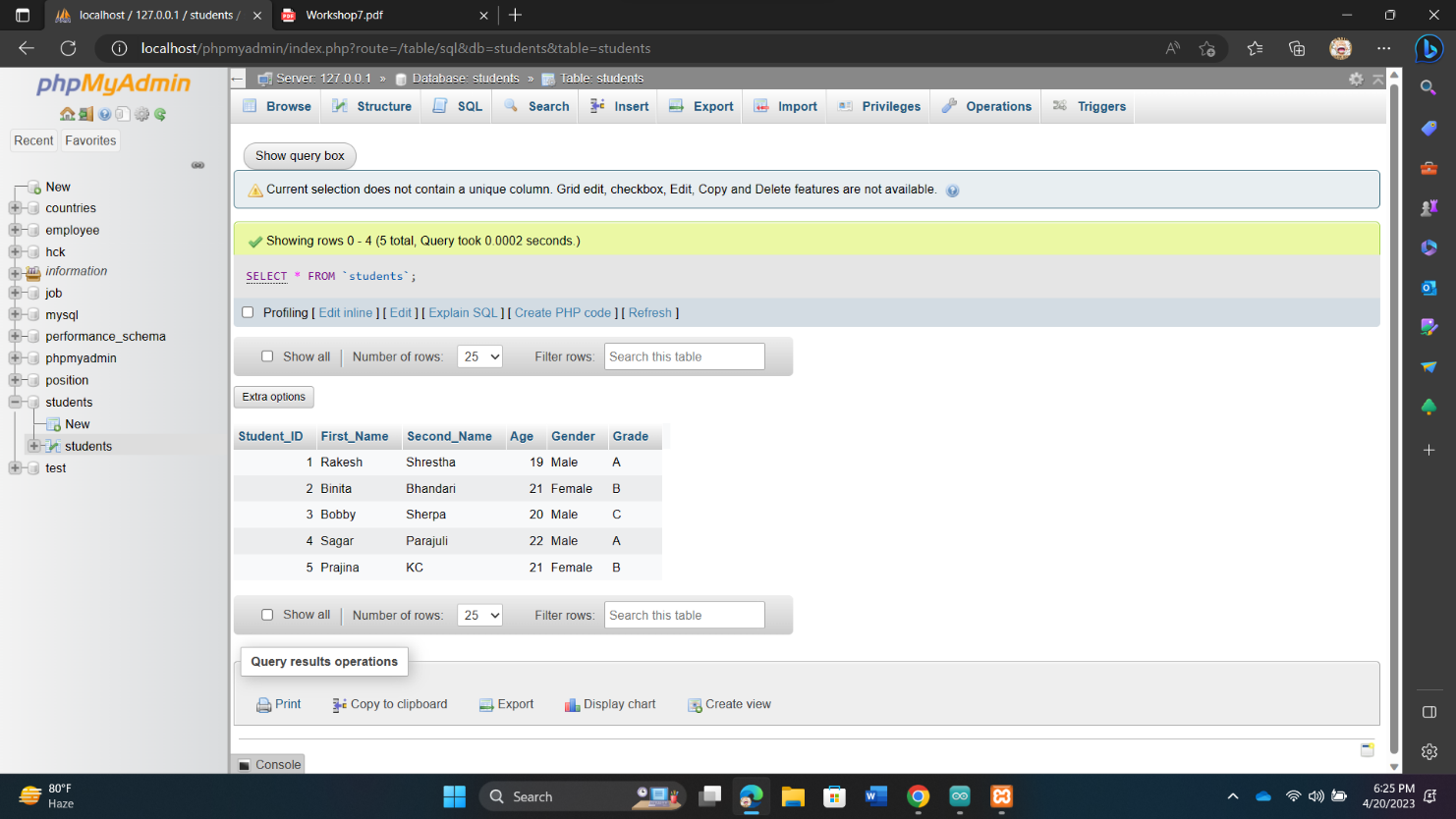
|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Student\_ID** | **Firstname** | **Lastname** | **Age** | **Gender** | **Grade** |  |
| 1 | Rakesh | Shrestha | 19 | Male | A |
| 2 | Binita | Bhandari | 21 | Female | B |
| 3 | Bobby | Sherpa | 20 | Male | C |
| 4 | Sagar | Parajuli | 22 | Male | A |
| 5 | Prajina | KC | 21 | Female | B |

Queries:

* 1. Retrieve all data from the Students Table

A picture containing text, screenshot, computer, indoor

Description automatically generated



* 1. Retrieve first name and last name of all students

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A screenshot of a computer

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* 1. Retrieve only the students who have a grade A

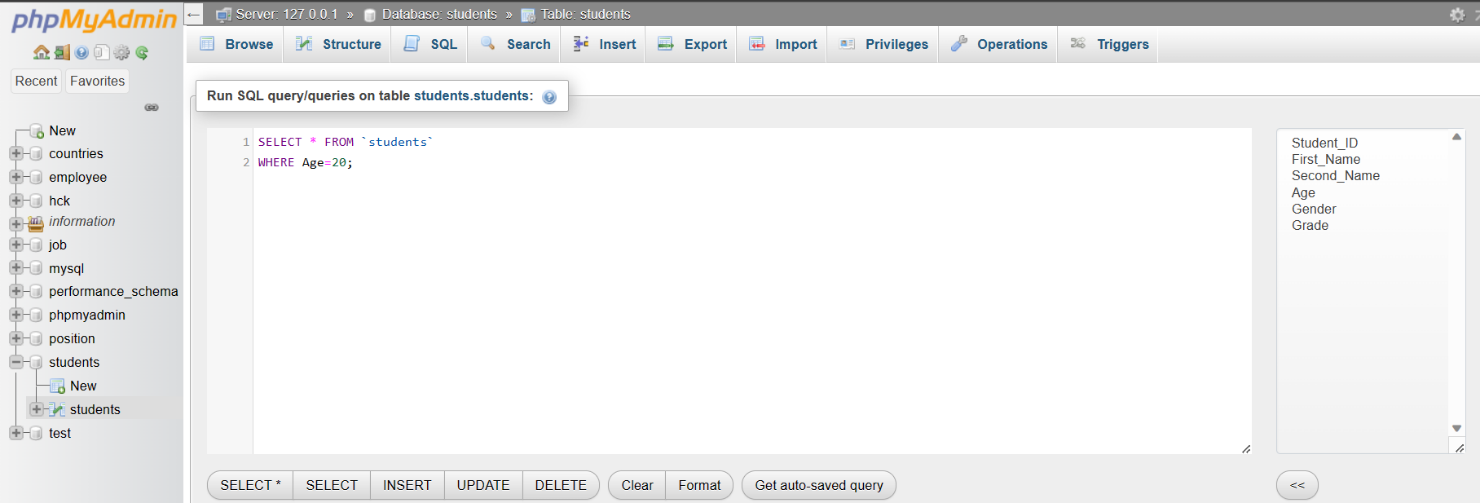
Graphical user interface, text, application

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* 1. Retrieve only the students who are older than 20



Graphical user interface, text, application

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* 1. Retrieve the count of male and female students



Graphical user interface, text, application

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* 1. Update the grade of a specific student (e.g. StudentID=3)

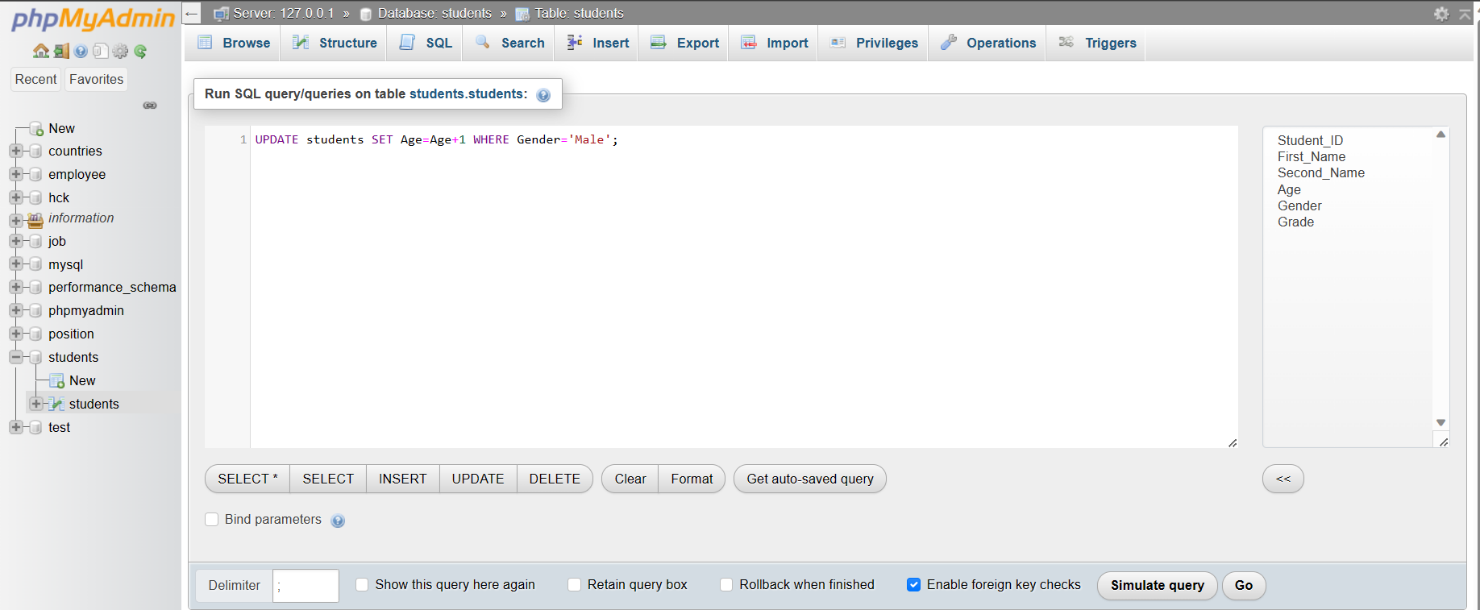
Graphical user interface, text, application, email

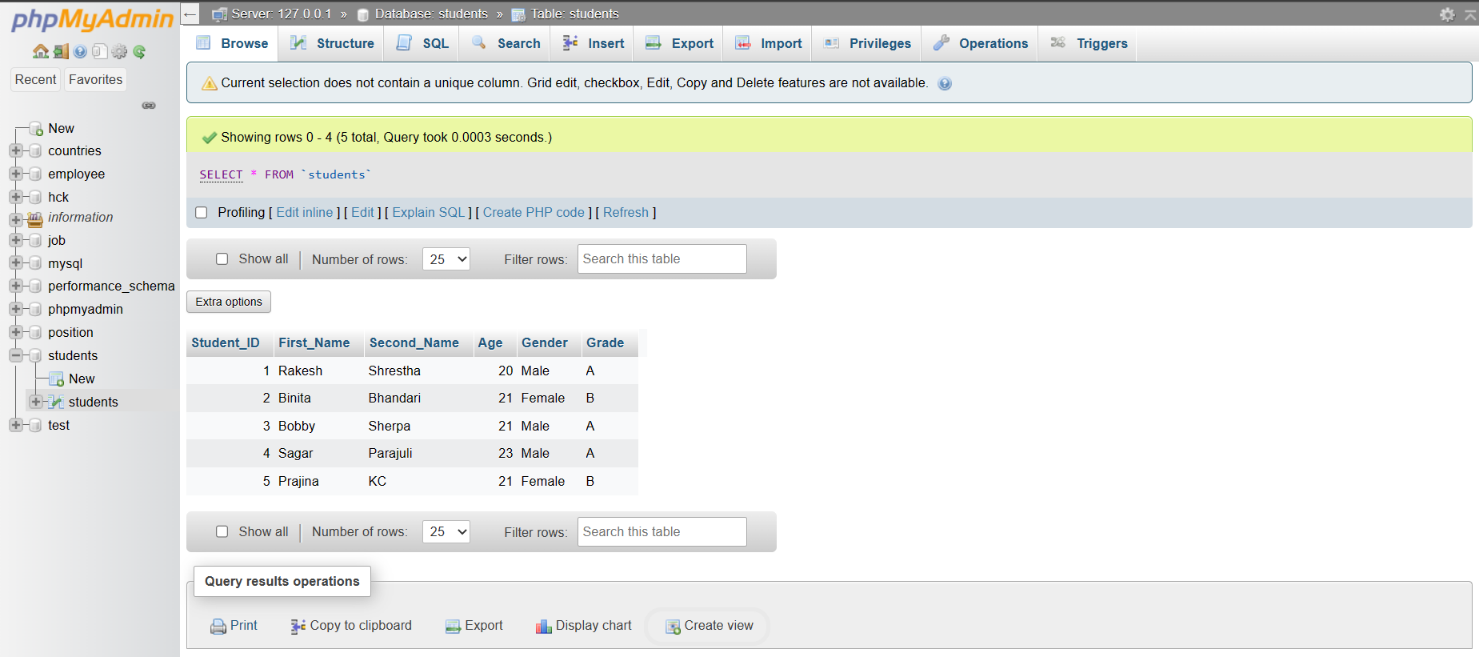
Description automatically generated

Graphical user interface, application

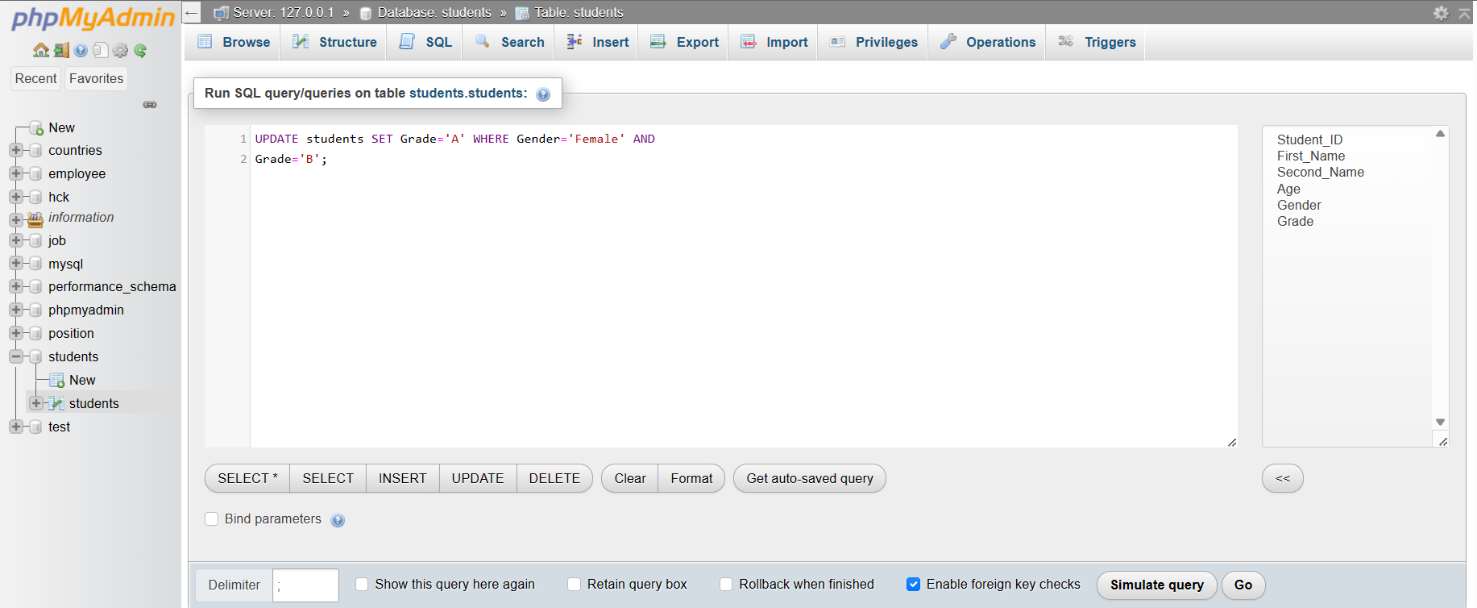
Description automatically generated

* 1. Increment the age of all male students by 1





* 1. Update the grade of all female students who have a grade of 'B' to 'A'



Graphical user interface, application

Description automatically generated

1. **Table: Customers**

**Customer\_ID Firstname Lastname Age Gender Email**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Kabir | Sharma | 25 | Male | kabir@gmail.com |
| 2 | Haris | Shrestha | 30 | Male | haris@gmail.com |
| 3 | Deepti | Singh | 26 | Female | deepti@gmail.com |

**Table: Orders**

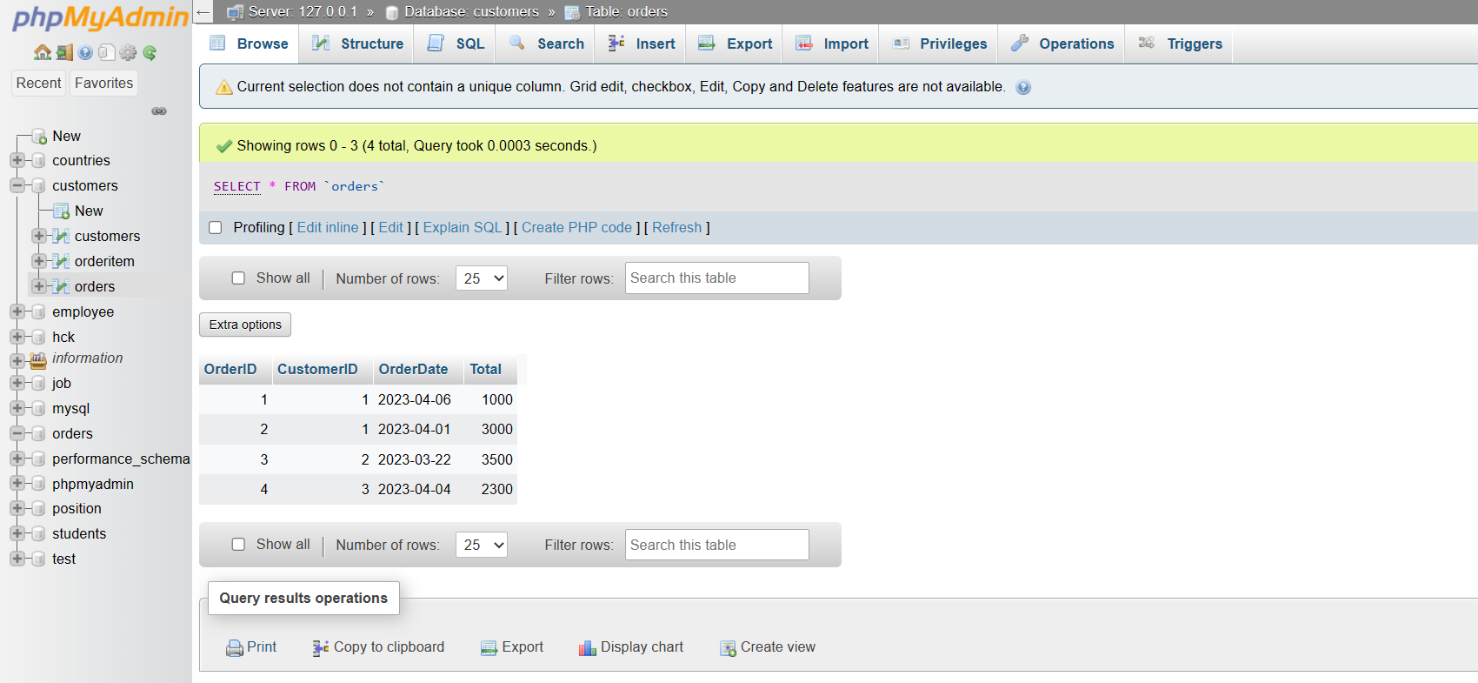
**OrderID CustomerID OrderDate Total**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 1 | 2023-04-06 | 1000 |
| 2 | 1 | 2023-04-01 | 3000 |
| 3 | 2 | 2023-03-22 | 3500 |
| 4 | 3 | 2023-04-04 | 2300 |

**Table: OrderItem**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **OrderItemID** | **OrderID** | **ProductItems** | **Quantity** | **Price** |
| 1 | 1 | Product A | 2 | 1200 |
| 2 | 1 | Product B | 3 | 1345 |
| 3 | 2 | Product C | 4 | 1360 |
| 4 | 3 | Product D | 5 | 950 |
| 5 | 3 | Product E | 1 | 1125 |
| 6 | 4 | Product F | 2 | 1780 |
| 7 | 4 | Product G | 1 | 1560 |
| 8 | 3 | Product H | 3 | 1220 |

Graphical user interface, application

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Graphical user interface, application

Description automatically generated

Queries:

1. Retrieve all orders along with the customer details

Graphical user interface, text, application, email

Description automatically generated

1. Retrieve all orders along with the customer details and order items

Graphical user interface, application, table

Description automatically generated

1. Retrieve the customer details for a specific order (e.g. OrderID=2)

Graphical user interface, text, application

Description automatically generated

1. Retrieve all orders for a specific customer (e.g. CustomerID=1)

Graphical user interface, text, application

Description automatically generated

1. Retrieve the total revenue generated by each customer

Graphical user interface, text, application, email

Description automatically generated