

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:

a. Retrieve all data from the Students Table

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Browser Structure SQL Search Insert Export More

Show query box

✓ Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

```
SELECT * FROM `Students`;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

<input type="checkbox"/>	Edit	Copy	Delete	1	Rakesh	Shrestha	19	Male	A
<input type="checkbox"/>	Edit	Copy	Delete	2	Binita	Bhandari	21	Female	B
<input type="checkbox"/>	Edit	Copy	Delete	3	Bobby	Sherpa	20	Male	C
<input type="checkbox"/>	Edit	Copy	Delete	4	Sagar	Parajuli	22	Male	A
<input type="checkbox"/>	Edit	Copy	Delete	5	Prajina	KC	21	Female	B

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

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b. Retrieve first name and last name of all students

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Show query box

Showing rows 0 - 4 (5 total, Query took 0.0001 seconds.)

```
SELECT `First_name`, `Last_name` FROM `Students` WHERE 1;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	First_name	Last_name
<input type="checkbox"/> Edit Copy Delete	Rakesh	Shrestha
<input type="checkbox"/> Edit Copy Delete	Binita	Bhandari
<input type="checkbox"/> Edit Copy Delete	Bobby	Sherpa
<input type="checkbox"/> Edit Copy Delete	Sagar	Parajuli
<input type="checkbox"/> Edit Copy Delete	Prajina	KC

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

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c. Retrieve only the students who have a grade A

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Show query box

Showing rows 0 - 2 (3 total, Query took 0.0001 seconds.)

```
SELECT * FROM `Students` WHERE Age>20;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

<input type="checkbox"/>	Edit	Copy	Delete	2	Binita	Bhandari	21	Female	B
<input type="checkbox"/>	Edit	Copy	Delete	4	Sagar	Parajuli	22	Male	A
<input type="checkbox"/>	Edit	Copy	Delete	5	Prajina	KC	21	Female	B

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

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e.

f. Retrieve the count of male and female students

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Students

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Your SQL query has been executed successfully.

SELECT COUNT(Gender) FROM `Students` WHERE Gender="Male";

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

Refresh

Extra options

COUNT(Gender)

3

Query results operations

Print

Copy to clipboard

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Display chart

Create view

Bookmark this SQL query

Label:

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Bookmark this SQL query

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Your SQL query has been executed successfully.

SELECT COUNT(Gender) FROM `Students` WHERE Gender="Female";

Profiling

Edit inline

Edit

Explain SQL

Create PHP code

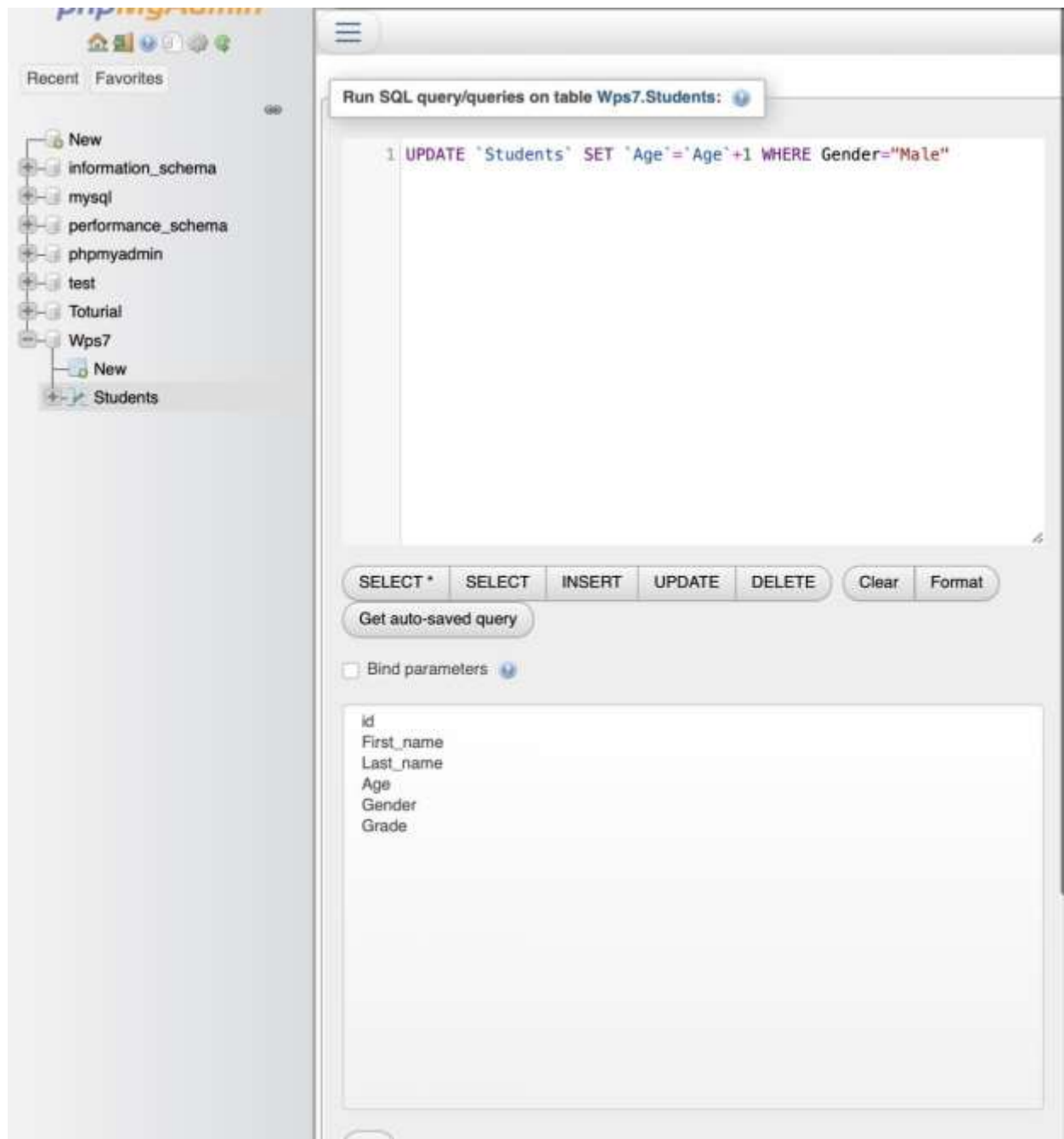
Refresh

Extra options

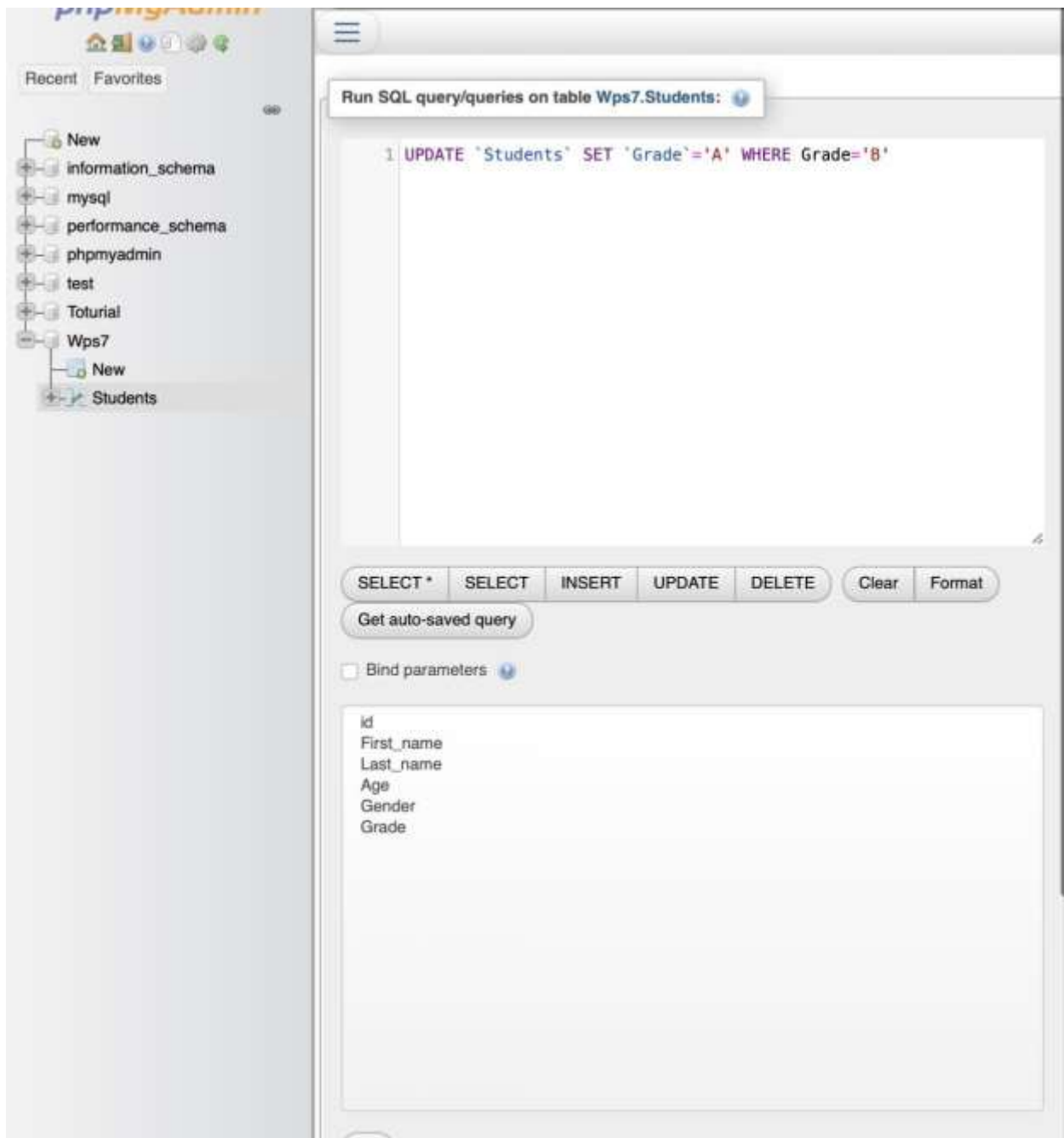
COUNT(Gender)

2

g. Increment the age of all male students by 1



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



2. Table: Customers

OrderItemID	OrderID	ProductItems	Quantity	Price
1	1	Product A	2	1200
2	1	Product B	3	1345

3	2	Product C	4	1360
---	---	-----------	---	------

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: OrderItems

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

Queries:

- a. Retrieve all orders along with the customer details

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- OrderItems
- Orders
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Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 7 (8 total, Query took 0.0003 seconds.)

```
SELECT
OrderItems.ProductItems, Costumers.First_name, Costumers.Last_name, Costumers.Age,
Costumers.Gender, Costumers.Email AS order_id FROM OrderItems JOIN Orders on
OrderItems.Order_id=Orders.CostumerID JOIN Costumers on
Costumers.id=Orders.CostumerID;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

ProductItems	First_name	Last_name	Age	Gender	order_id
Product A	Kabir	Sharma	25	Male	kabir@gmail.com
Product A	Kabir	Sharma	25	Male	kabir@gmail.com
Product b	Kabir	Sharma	25	Male	kabir@gmail.com
Product b	Kabir	Sharma	25	Male	kabir@gmail.com
Product c	Haris	Shrestha	30	Male	haris@gmail.com
Product D	Deepti	Singh	26	Female	deepti@gmail.com
Product E	Deepti	Singh	26	Female	deepti@gmail.com
Product H	Deepti	Singh	26	Female	deepti@gmail.com

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

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

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Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 7 (8 total, Query took 0.0002 seconds.)

```
SELECT
OrderItems.ProductItems,OrderItems.Quantity,OrderItems.Price,Orders.Orderdate,Orders.Total,Costumers.First_name,Costumers.Last_name,Costumers.Age,Costumers.Gender,Costumers.Email AS order_id FROM OrderItems JOIN Orders on
OrderItems.Order_id=Orders.CustomerID JOIN Costumers on
Costumers.id=Orders.CustomerID;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

ProductItems	Quantity	Price	Orderdate	Total	First_name	Last_name	Age	Gender	order_id
Product A	2	1200	2023-04-06	1000	Kabir	Sharma	25	Male	kabir@gmail.com
Product A	2	1200	2023-04-01	3000	Kabir	Sharma	25	Male	kabir@gmail.com
Product b	3	1345	2023-04-06	1000	Kabir	Sharma	25	Male	kabir@gmail.com
Product b	3	1345	2023-04-01	3000	Kabir	Sharma	25	Male	kabir@gmail.com
Product c	4	1360	2023-03-22	3500	Haris	Shrestha	30	Male	haris@gmail.com
Product D	5	950	2023-04-04	2300	Deepti	Singh	26	Female	deepti@gmail.com
Product E	1	1125	2023-04-04	2300	Deepti	Singh	26	Female	deepti@gmail.com
Product H	3	1220	2023-04-04	2300	Deepti	Singh	26	Female	deepti@gmail.com

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Query results operations

Print

Copy to clipboard

Export

Display chart

Create view

Bookmark this SQL query

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

The screenshot shows the phpMyAdmin interface with the 'SQL' tab selected. The left sidebar shows a database structure with 'Orders' and 'OrderItems' tables. The main area displays a SQL query that joins 'OrderItems', 'Orders', and 'Customers' tables to retrieve customer details for a specific order (Product A).

SQL Query:

```
SELECT
OrderItems.ProductItems,Customers.First_name,Customers.Last_name,Customers.Age,
Customers.Gender,Customers.Email AS order_id FROM OrderItems JOIN Orders on
OrderItems.Order_id=Orders.CustomerID JOIN Customers on
Customers.id=Orders.CustomerID WHERE OrderItems.ProductItems="Product A";
```

Query Results:

ProductItems	First_name	Last_name	Age	Gender	order_id
Product A	Kabir	Sharma	25	Male	kabir@gmail.com
Product A	Kabir	Sharma	25	Male	kabir@gmail.com

The interface also includes a 'Query results operations' section with buttons for Print, Copy to clipboard, Export, Display chart, and Create view. There is also a 'Bookmark this SQL query' section with a label input field and a checkbox for 'Let every user access this bookmark'.

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

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Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 3 (4 total, Query took 0.0004 seconds.)

```
SELECT
OrderItems.ProductItems, Costumers.First_name, Costumers.Last_name, Costumers.Age,
Costumers.Gender, Costumers.Email AS order_id FROM OrderItems JOIN Orders on
OrderItems.Order_id=Orders.CustomerID JOIN Costumers on
Costumers.id=Orders.CustomerID WHERE Orders.CustomerID=1;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

ProductItems	First_name	Last_name	Age	Gender	order_id
Product A	Kabir	Sharma	25	Male	kabir@gmail.com
Product A	Kabir	Sharma	25	Male	kabir@gmail.com
Product b	Kabir	Sharma	25	Male	kabir@gmail.com
Product b	Kabir	Sharma	25	Male	kabir@gmail.com

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

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e. Retrieve the total revenue generated by each customer

localhost / localhost / Wps7 / Orders | phpMyAdmin 5.2.0

Instagram - Chats

Database: Wps7 - Table: Customers

BrowseStructureSQLSearchInsertExportImportPrivilegesOperationsTrackingTriggers

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 2 (3 total. Query took 0.0011 seconds.)

```
SELECT Customers.id, Customers.First_name,Customers.Last_name, SUM(Orderitems.price * Orderitems.quantity) AS total_revenue FROM Customers JOIN Orders ON Customers.id = Orders.CustomerID JOIN Orderitems ON Orders.OrderId = Orderitems.Order_id GROUP BY Customers.id, Customers.First_name;
```

Customers

Profiling | Edit menu | Edit | Explain SQL | Create PHP code | Refresh

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

id	First_name	Last_name	total_revenue
1	Kabir	Sharma	11875
2	Hari	Shrestha	9535
3	Deepthi	Singh	5120

Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print | Copy to clipboard | Export | Display chart | Create view

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Console