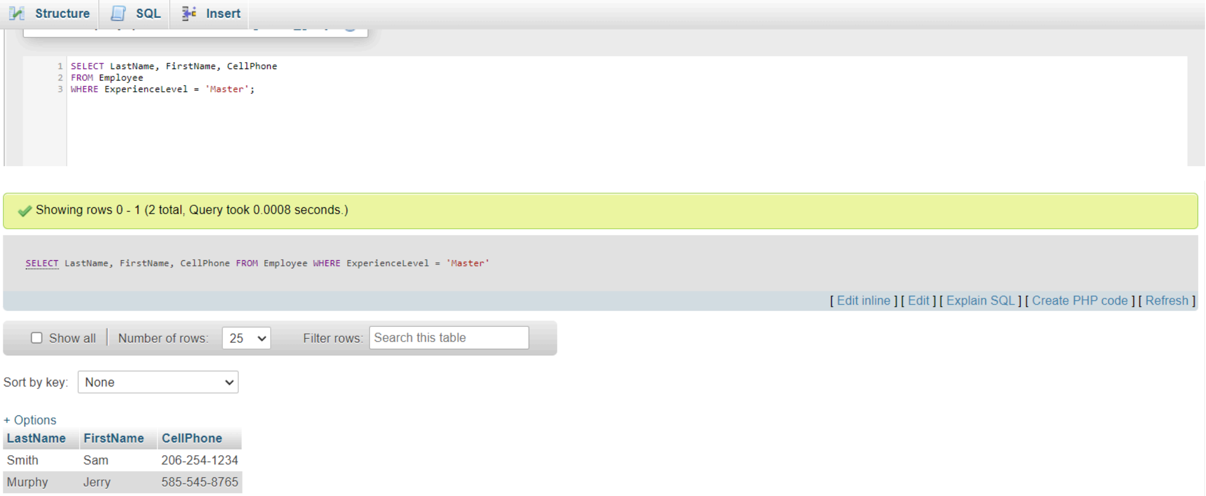
65070503428 Pitchayapat Wareevanich

A.) Write an SQL statement to list LastName, FirstName, and CellPhone for all employees having an experience level of Master.



```sql
SELECT LastName, FirstName, CellPhone
FROM Employee
WHERE ExperienceLevel = 'Master';
```

✓ Showing rows 0 - 1 (2 total, Query took 0.0008 seconds.)

```
SELECT LastName, FirstName, CellPhone FROM Employee WHERE ExperienceLevel = 'Master'
```

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

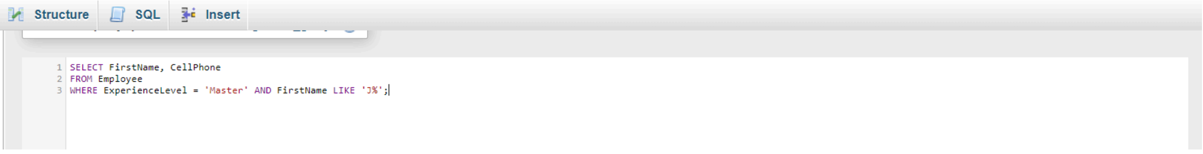
□ Show all | Number of rows: 25 Filter rows: Search this table

Sort by key: None

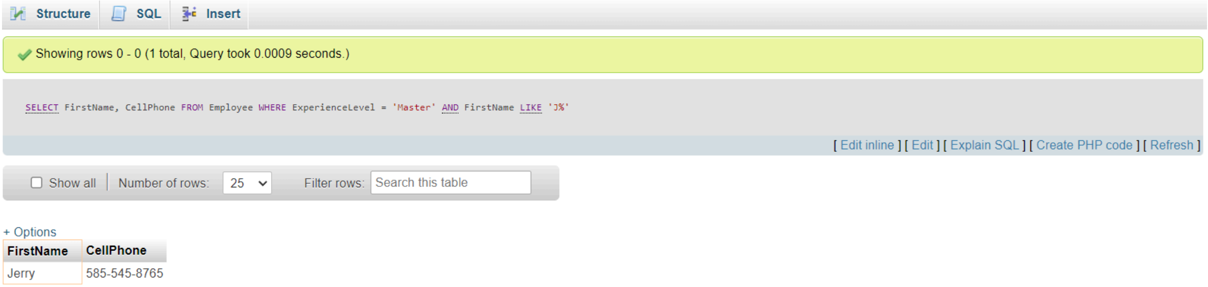
+ Options

LastName	FirstName	CellPhone
Smith	Sam	206-254-1234
Murphy	Jerry	585-545-8765

B.) Write an SQL statement to list Name and CellPhone for all employees having an experience level of Master and Name that begins with the letter J.



```sql
SELECT FirstName, CellPhone
FROM Employee
WHERE ExperienceLevel = 'Master' AND FirstName LIKE 'J%';
```



✓ Showing rows 0 - 0 (1 total, Query took 0.0009 seconds.)

```
SELECT FirstName, CellPhone FROM Employee WHERE ExperienceLevel = 'Master' AND FirstName LIKE 'J%'
```

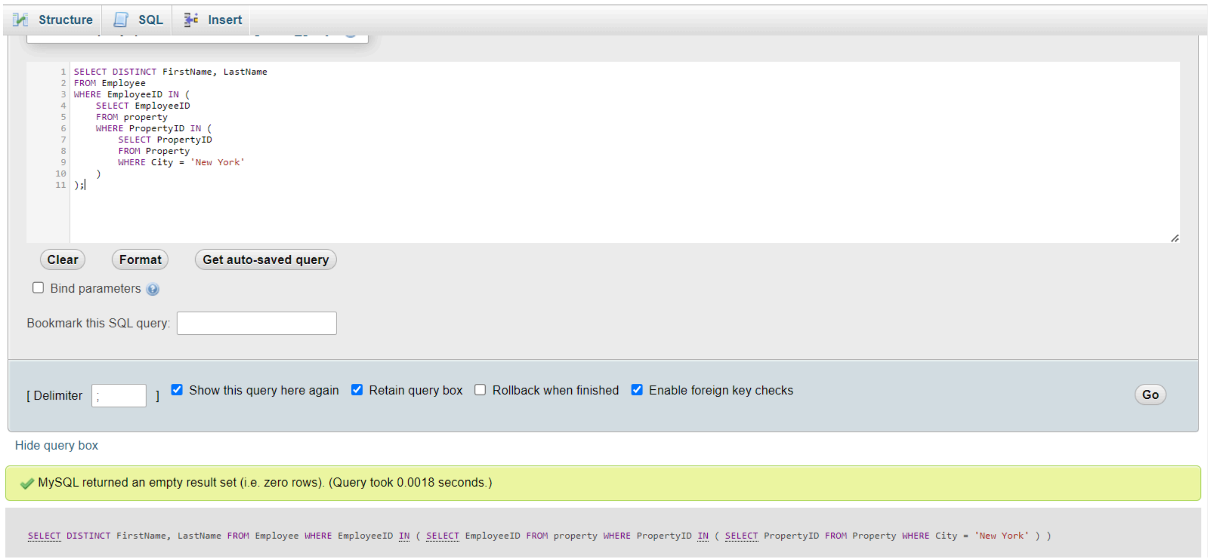
[Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

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

+ Options

FirstName	CellPhone
Jerry	585-545-8765

C.) Write an SQL statement to list the names of employees who have worked on a property in New York. Use a subquery.



```sql
SELECT DISTINCT FirstName, LastName
FROM Employee
WHERE EmployeeID IN (
    SELECT EmployeeID
    FROM property
    WHERE PropertyID IN (
        SELECT PropertyID
        FROM Property
        WHERE City = 'New York'
    )
);
```

□ Bind parameters

Bookmark this SQL query:

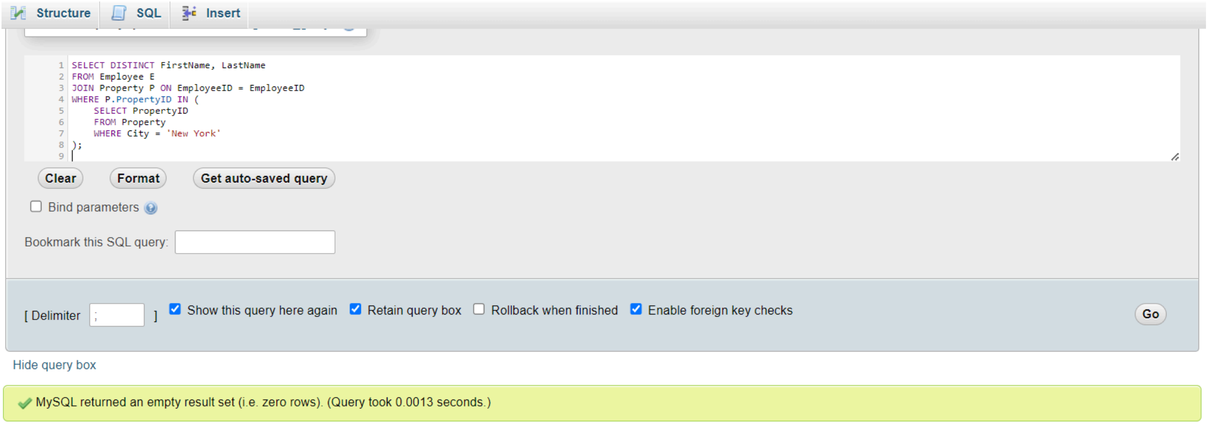
[Delimiter ;] ☑ Show this query here again ☑ Retain query box □ Rollback when finished ☑ Enable foreign key checks

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0018 seconds.)

```
SELECT DISTINCT FirstName, LastName FROM Employee WHERE EmployeeID IN ( SELECT EmployeeID FROM property WHERE PropertyID IN ( SELECT PropertyID FROM Property WHERE City = 'New York' ) )
```

65070503428 Pitchayapat Wareevanich

D.) Answer question C but use a join.



```
SELECT DISTINCT FirstName, LastName
FROM Employee E
JOIN Property P ON EmployeeID = EmployeeID
WHERE P.PropertyID IN (
    SELECT PropertyID
    FROM Property
    WHERE City = 'New York'
);
```

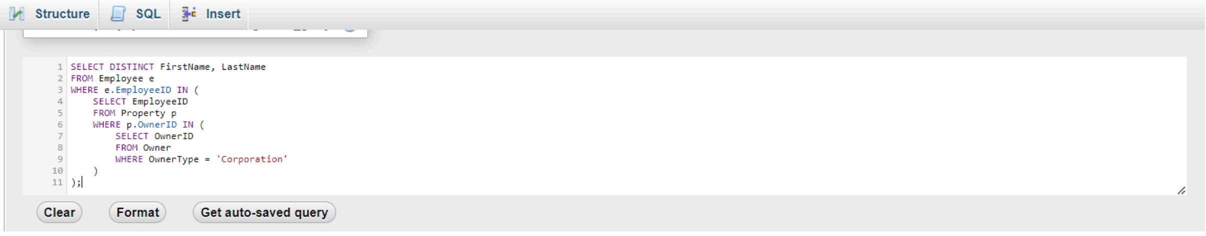
□ Bind parameters

Bookmark this SQL query:

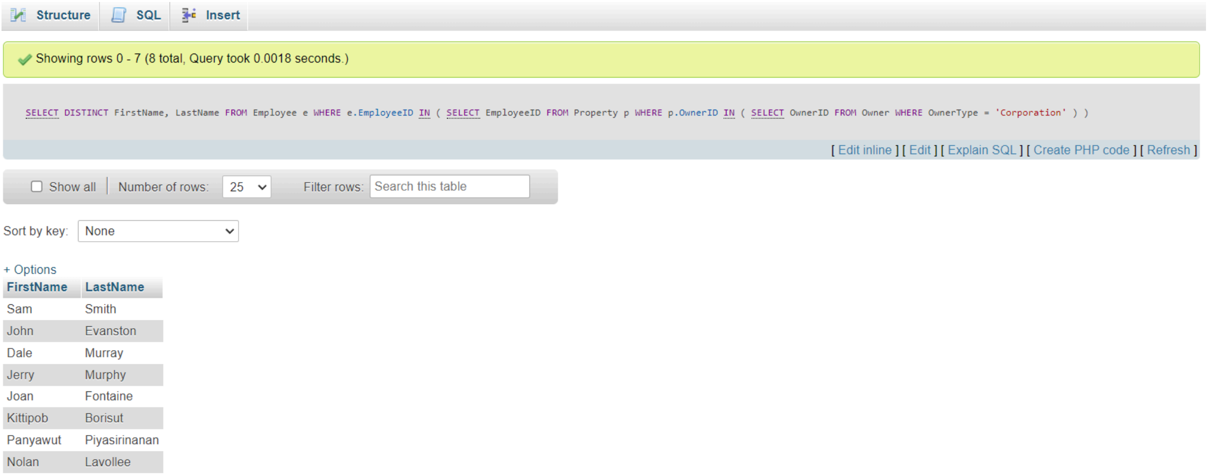
[Delimiter ;] ☑ Show this query here again ☑ Retain query box □ Rollback when finished ☑ Enable foreign key checks

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0013 seconds.)

E.) Write an SQL statement to list the names of employees who have worked on a property owned by a Corporation. Use a subquery.



```
SELECT DISTINCT FirstName, LastName
FROM Employee e
WHERE e.EmployeeID IN (
    SELECT EmployeeID
    FROM Property p
    WHERE p.OwnerID IN (
        SELECT OwnerID
        FROM Owner
        WHERE OwnerType = 'Corporation'
    )
);
```


Structure
SQL
Insert
[Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
+ Options

✓ Showing rows 0 - 7 (8 total, Query took 0.0018 seconds.)

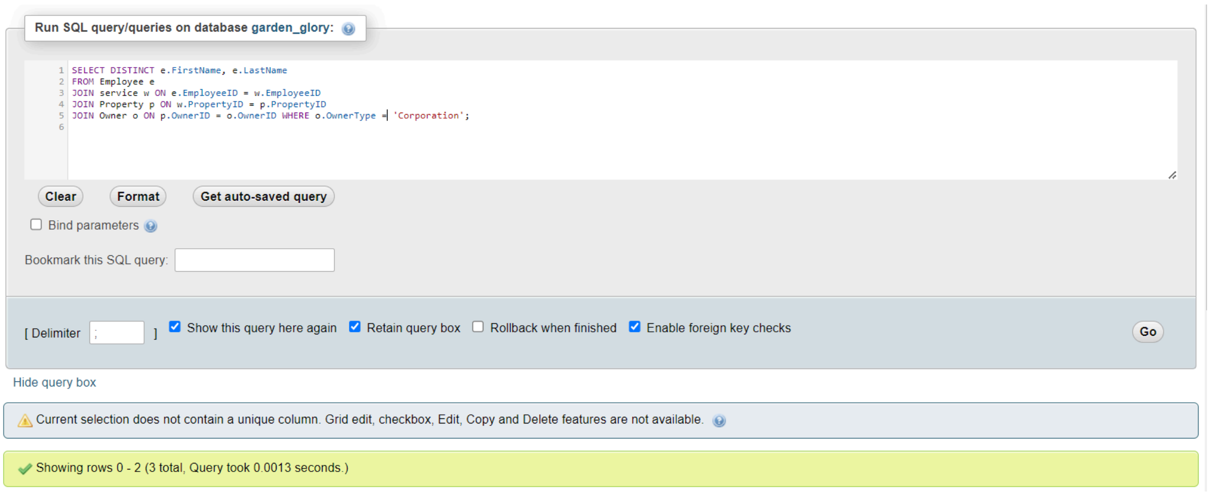
```
SELECT DISTINCT FirstName, LastName FROM Employee e WHERE e.EmployeeID IN ( SELECT EmployeeID FROM Property p WHERE p.OwnerID IN ( SELECT OwnerID FROM Owner WHERE OwnerType = 'Corporation' ) )
```

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

Sort by key: None

FirstName	LastName
Sam	Smith
John	Evanston
Dale	Murray
Jerry	Murphy
Joan	Fontaine
Kittipob	Borisut
Panyawut	Piyasirinanan
Nolan	Lavollee

F.) Answer question E but use a join.



Run SQL query/queries on database garden_glory:

```
SELECT DISTINCT e.FirstName, e.LastName
FROM Employee e
JOIN service w ON e.EmployeeID = w.EmployeeID
JOIN Property p ON w.PropertyID = p.PropertyID
JOIN Owner o ON p.OwnerID = o.OwnerID WHERE o.OwnerType = 'Corporation';
```

□ Bind parameters

Bookmark this SQL query:

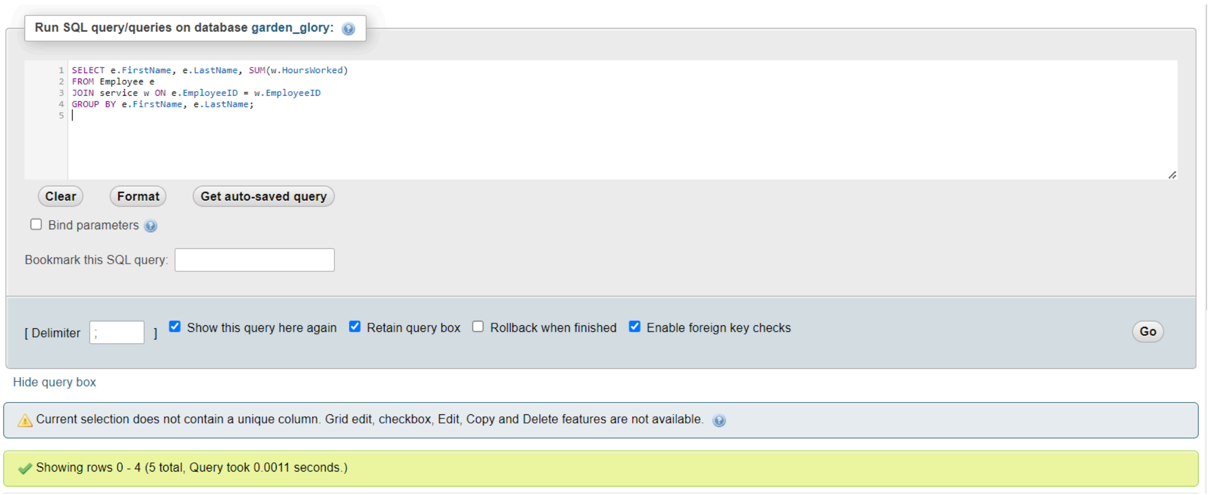
[Delimiter ;] ☑ Show this query here again ☑ Retain query box □ Rollback when finished ☑ Enable foreign key checks

⚠ 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 0.0013 seconds.)

65070503428 Pitchayapat Wareevanich

G.) Write an SQL statement to show the name and sum of hours worked for each employee.



```sql
SELECT e.FirstName, e.LastName, SUM(w.HoursWorked)
FROM Employee e
JOIN service w ON e.EmployeeID = w.EmployeeID
GROUP BY e.FirstName, e.LastName;
```

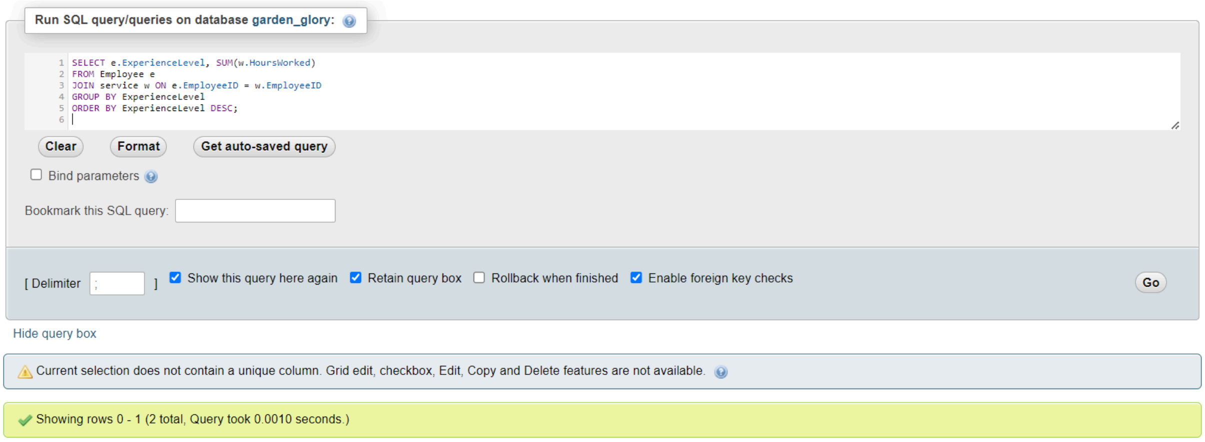
☐ Bind parameters

☑ Show this query here again ☑ Retain query box ☐ Rollback when finished ☑ Enable foreign key checks

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

✓ Showing rows 0 - 4 (5 total, Query took 0.0011 seconds.)

H.) Write an SQL statement to show the sum of hours worked for each ExperienceLevel of EMPLOYEE. Sort the results by ExperienceLevel in descending order.



```sql
SELECT e.ExperienceLevel, SUM(w.HoursWorked)
FROM Employee e
JOIN service w ON e.EmployeeID = w.EmployeeID
GROUP BY ExperienceLevel
ORDER BY ExperienceLevel DESC;
```

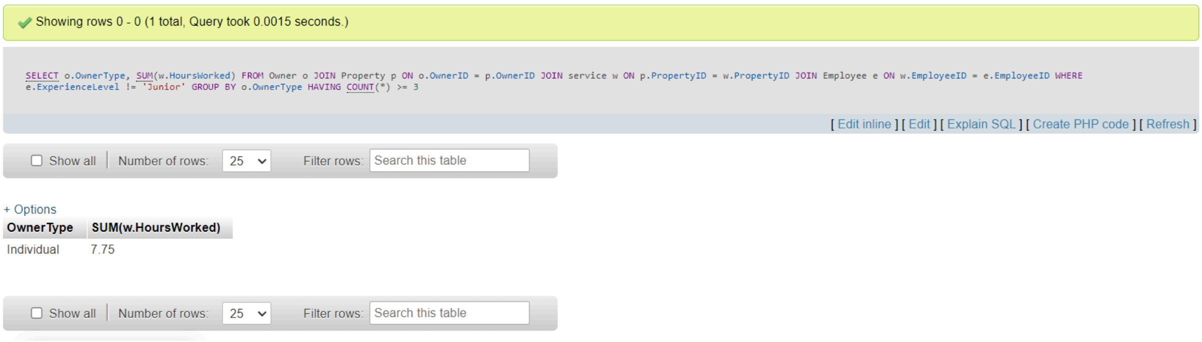
☐ Bind parameters

☑ Show this query here again ☑ Retain query box ☐ Rollback when finished ☑ Enable foreign key checks

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

✓ Showing rows 0 - 1 (2 total, Query took 0.0010 seconds.)

I.) Write an SQL statement to show the sum of HoursWorked for each Type of OWNER but exclude services of employees who have ExperienceLevel of Junior and exclude any type with less than three members.


[Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
☐ Show all
Number of rows: 25
Filter rows: Search this table
+ Options
☐ Show all
Number of rows: 25
Filter rows: Search this table

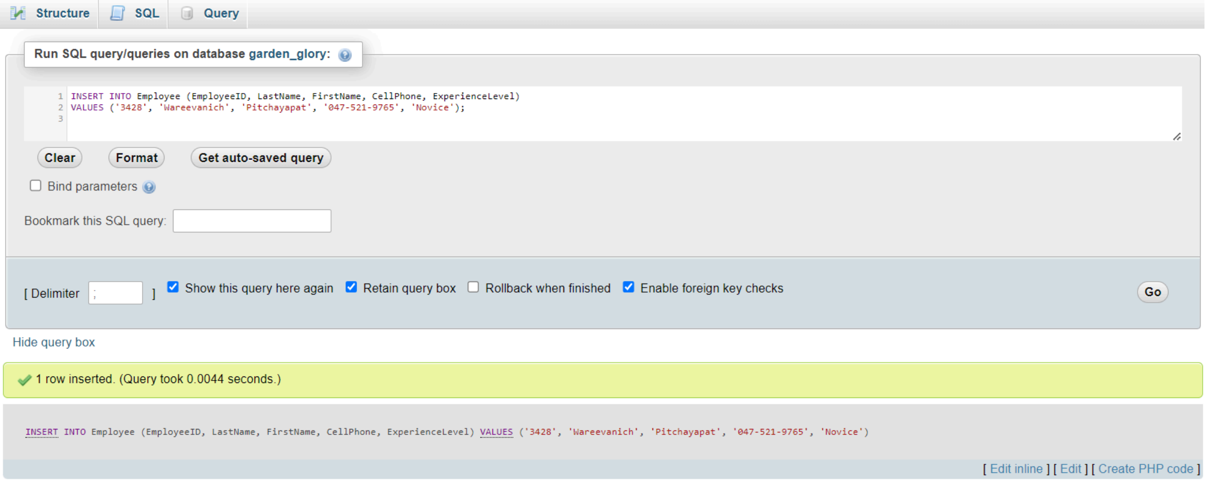
✓ Showing rows 0 - 0 (1 total, Query took 0.0015 seconds.)

```sql
SELECT o.OwnerType, SUM(w.HoursWorked) FROM Owner o JOIN Property p ON o.OwnerID = p.OwnerID JOIN service w ON p.PropertyID = w.PropertyID JOIN Employee e ON w.EmployeeID = e.EmployeeID WHERE
e.ExperienceLevel != 'Junior' GROUP BY o.OwnerType HAVING COUNT(*) >= 3
```

OwnerType	SUM(w.HoursWorked)
Individual	7.75

65070503428 Pitchayapat Wareevanich

J.) Write an SQL statement to insert yourself as an employee where your experience level is Novice and EmployeeID is your studentID.



Run SQL query/queries on database garden_glory:

```
INSERT INTO Employee (EmployeeID, LastName, FirstName, CellPhone, ExperienceLevel)
VALUES ('3428', 'Wareevanich', 'Pitchayapat', '047-521-9765', 'Novice');
```

□ Bind parameters

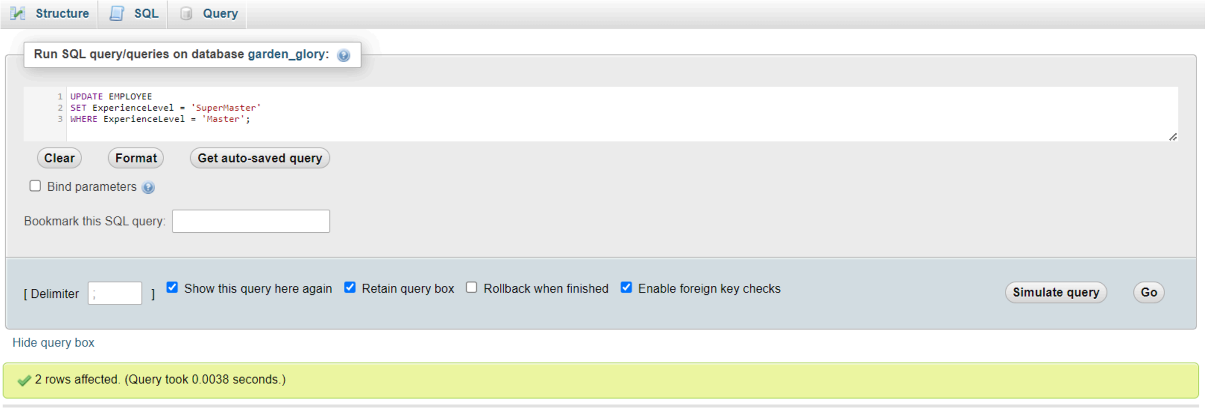
Bookmark this SQL query:

[Delimiter ;] ☑ Show this query here again ☑ Retain query box □ Rollback when finished ☑ Enable foreign key checks

✓ 1 row inserted. (Query took 0.0044 seconds.)

```
INSERT INTO Employee (EmployeeID, LastName, FirstName, CellPhone, ExperienceLevel) VALUES ('3428', 'Wareevanich', 'Pitchayapat', '047-521-9765', 'Novice')
```

K.) Write an SQL statement to modify all EMPLOYEE rows with ExperienceLevel of Master to SuperMaster.



Run SQL query/queries on database garden_glory:

```
UPDATE EMPLOYEE
SET ExperienceLevel = 'SuperMaster'
WHERE ExperienceLevel = 'Master';
```

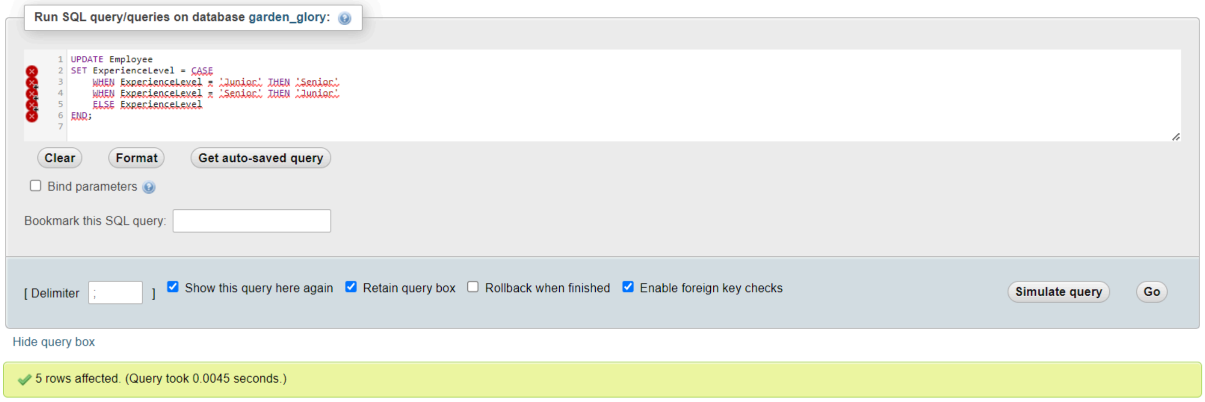
□ Bind parameters

Bookmark this SQL query:

[Delimiter ;] ☑ Show this query here again ☑ Retain query box □ Rollback when finished ☑ Enable foreign key checks

✓ 2 rows affected. (Query took 0.0038 seconds.)

L.) Write an SQL statement to switch the values of ExperienceLevel so that all rows currently having the value Junior will have the value Senior, and all rows currently having the value Senior will have the value Junior.



Run SQL query/queries on database garden_glory:

```
UPDATE Employee
SET ExperienceLevel = CASE
    WHEN ExperienceLevel = 'Junior' THEN 'Senior'
    WHEN ExperienceLevel = 'Senior' THEN 'Junior'
    ELSE ExperienceLevel
END;
```

□ Bind parameters

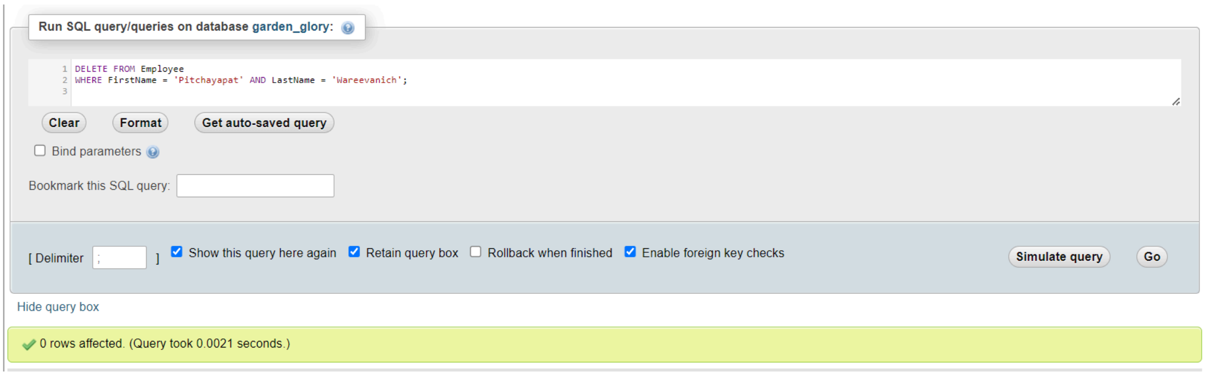
Bookmark this SQL query:

[Delimiter ;] ☑ Show this query here again ☑ Retain query box □ Rollback when finished ☑ Enable foreign key checks

✓ 5 rows affected. (Query took 0.0045 seconds.)

65070503428 Pitchayapat Wareevanich

M.) Delete yourself from Employee



```sql
DELETE FROM Employee
WHERE FirstName = 'Pitchayapat' AND LastName = 'Wareevanich';
```

☐ Bind parameters

Bookmark this SQL query:

[Delimiter ;] ☑ Show this query here again ☑ Retain query box ☐ Rollback when finished ☑ Enable foreign key checks

✓ 0 rows affected. (Query took 0.0021 seconds.)