

## LAB 6 - 62070501064 Onwipa Kujaroenpaisan

A.)

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

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

B.)

```
SELECT LastName, FirstName, CellPhone FROM employee
```

```
WHERE ExperienceLevel = 'Master' AND FirstName LIKE 'J%';
```

LastName	FirstName	CellPhone
Murphy	Jerry	585-545-8765

C.)

```
SELECT LastName, FirstName FROM employee
```

```
WHERE employeeID IN ( SELECT employeeID FROM service
```

```
WHERE propertyID IN (SELECT propertyID FROM property WHERE State = 'NY'));
```

LastName	FirstName
Murphy	Jerry

D.)

```
SELECT DISTINCT LastName, FirstName FROM (employee e JOIN service s
```

```
ON e.employeeID = s.employeeID) JOIN property p ON s.PropertyID = p.PropertyID
```

```
WHERE State = 'NY';
```

LastName	FirstName
Murphy	Jerry

E.)

```
SELECT LastName, FirstName FROM employee
```

```
WHERE employeeID IN ( SELECT employeeID FROM service
```

```
WHERE propertyID IN (SELECT propertyID FROM property
```

```
WHERE OwnerID IN ( SELECT OwnerID FROM owner
```

```
WHERE OwnerType = 'Corporation')));
```

LastName	FirstName
Smith	Sam
Murray	Dale
Murphy	Jerry

F.)

```
SELECT DISTINCT LastName, FirstName
```

```
FROM ((employee e JOIN service s ON e.employeeID = s.employeeID)
```

```
JOIN property p ON s.PropertyID = p.PropertyID) JOIN owner o ON o.OwnerID = p.OwnerID
```

```
WHERE OwnerType = 'Corporation';
```

LastName	FirstName
Smith	Sam
Murray	Dale
Murphy	Jerry

G.)

```
SELECT LastName, FirstName, SUM(HoursWorked) AS SumHour
```

```
FROM employee e JOIN service s ON e.employeeID = s.employeeID GROUP BY e.EmployeeID;
```

LastName	FirstName	SumHour
Smith	Sam	7.50
Evanston	John	5.25
Murray	Dale	4.50
Murphy	Jerry	10.25
Fontaine	Joan	2.50

H.)

```
SELECT ExperienceLevel,SUM(HoursWorked) AS SumHour
```

```
FROM employee e JOIN service s ON e.employeeID = s.employeeID
```

```
GROUP BY e.ExperienceLevel ORDER BY e.ExperienceLevel DESC;
```

ExperienceLevel ▼ 1	SumHour
Senior	7.75
Master	17.75
Junior	4.50

I.)

```
SELECT o.ownerType,SUM(s.HoursWorked) AS SumHour
```

```
FROM employee e, service s ,property p, owner o WHERE e.employeeID = s.employeeID
```

```
AND s.PropertyID = p.PropertyID AND o.OwnerID = p.OwnerID
```

```
AND e.ExperienceLevel NOT IN ('Junior')
```

```
AND o.OwnerType IN (SELECT ownerType FROM owner HAVING COUNT(ownerType)>=3)
```

```
GROUP BY o.OwnerType;
```

ownerType	SumHour
Individual	13.50

J.)

```
INSERT INTO employee(employeeID, LastName, FirstName, ExperienceLevel, CellPhone)
VALUES ('1064', 'Kujaroenpaisan','Onwipa','Novice','081-618-7956')
```

✓ 1 row inserted. (Query took 0.0053 seconds.)

EmployeeID	LastName	FirstName	CellPhone	ExperienceLevel
1	Smith	Sam	206-254-1234	Master
2	Evanston	John	206-254-2345	Senior
3	Murray	Dale	206-254-3456	Junior
4	Murphy	Jerry	585-545-8765	Master
5	Fontaine	Joan	206-254-4567	Senior
1064	Kujaroenpaisan	Onwipa	081-618-7956	Novice

K.)

Before

EmployeeID	LastName	FirstName	CellPhone	ExperienceLevel
1	Smith	Sam	206-254-1234	Master
2	Evanston	John	206-254-2345	Senior
3	Murray	Dale	206-254-3456	Junior
4	Murphy	Jerry	585-545-8765	Master
5	Fontaine	Joan	206-254-4567	Senior
1064	Kujaroenpaisan	Onwipa	081-618-7956	Novice

After

```
UPDATE employee SET ExperienceLevel = 'SuperMaster' WHERE ExperienceLevel = 'Master'
```

✓ 2 rows affected. (Query took 0.0076 seconds.)

EmployeeID	LastName	FirstName	CellPhone	ExperienceLevel
1	Smith	Sam	206-254-1234	SuperMaster
2	Evanston	John	206-254-2345	Senior
3	Murray	Dale	206-254-3456	Junior
4	Murphy	Jerry	585-545-8765	SuperMaster
5	Fontaine	Joan	206-254-4567	Senior
1064	Kujaroenpaisan	Onwipa	081-618-7956	Novice

L.)

Before

EmployeeID	LastName	FirstName	CellPhone	ExperienceLevel
1	Smith	Sam	206-254-1234	SuperMaster
2	Evanston	John	206-254-2345	Senior
3	Murray	Dale	206-254-3456	Junior
4	Murphy	Jerry	585-545-8765	SuperMaster
5	Fontaine	Joan	206-254-4567	Senior
1064	Kujaroenpaisan	Onwipa	081-618-7956	Novice

Senior -> Temp

UPDATE employee SET ExperienceLevel = 'Temp' WHERE ExperienceLevel = 'Senior'

✔ 2 rows affected. (Query took 0.0078 seconds.)

EmployeeID	LastName	FirstName	CellPhone	ExperienceLevel
1	Smith	Sam	206-254-1234	SuperMaster
2	Evanston	John	206-254-2345	Temp
3	Murray	Dale	206-254-3456	Junior
4	Murphy	Jerry	585-545-8765	SuperMaster
5	Fontaine	Joan	206-254-4567	Temp
1064	Kujaroenpaisan	Onwipa	081-618-7956	Novice

Junior -> Senior

UPDATE employee SET ExperienceLevel = 'Senior' WHERE ExperienceLevel = 'Junior';

✔ 1 row affected. (Query took 0.0075 seconds.)

EmployeeID	LastName	FirstName	CellPhone	ExperienceLevel
1	Smith	Sam	206-254-1234	SuperMaster
2	Evanston	John	206-254-2345	Temp
3	Murray	Dale	206-254-3456	Senior
4	Murphy	Jerry	585-545-8765	SuperMaster
5	Fontaine	Joan	206-254-4567	Temp
1064	Kujaroenpaisan	Onwipa	081-618-7956	Novice

Temp -> Junior

UPDATE employee SET ExperienceLevel = 'Junior' WHERE ExperienceLevel = 'Temp'

✓ 2 rows affected. (Query took 0.0065 seconds.)

EmployeeID	LastName	FirstName	CellPhone	ExperienceLevel
1	Smith	Sam	206-254-1234	SuperMaster
2	Evanston	John	206-254-2345	Junior
3	Murray	Dale	206-254-3456	Senior
4	Murphy	Jerry	585-545-8765	SuperMaster
5	Fontaine	Joan	206-254-4567	Junior
1064	Kujaroenpaisan	Onwipa	081-618-7956	Novice

M.)

DELETE FROM employee WHERE employeeID = '1064';

✓ 1 row affected. (Query took 0.0177 seconds.)

EmployeeID	LastName	FirstName	CellPhone	ExperienceLevel
1	Smith	Sam	206-254-1234	SuperMaster
2	Evanston	John	206-254-2345	Junior
3	Murray	Dale	206-254-3456	Senior
4	Murphy	Jerry	585-545-8765	SuperMaster
5	Fontaine	Joan	206-254-4567	Junior