

IS475/675 - Answers to SQL Join Lab on 03/08/2016

Task 2.

```
select emp.empid,  
       emp.lastname,  
       emp.firstname,  
       jobtitle.title  
from   labemp emp  
left outer join labjobtitle jobtitle  
on      emp.jobtitleid = jobtitle.jobtitleid  
order by emp.empid;
```

Task 3.

```
select      emp.empid,  
            emp.lastname,  
            emp.firstname,  
            ISNULL(jobtitle.title, '**Missing**') JobTitle  
from        labemp emp  
left outer join labjobtitle jobtitle  
on          emp.jobtitleid = jobtitle.jobtitleid  
order by emp.empid;
```

Task 4.

```
Select      emp.empid,  
            emp.lastname,  
            emp.firstname,  
            ISNULL(jobtitle.title, '**Missing**') JobTitle,  
            tw.startwork,  
            tw.minutes/60  HoursWorked  
from        labemp emp  
left outer join labjobtitle jobtitle  
on          emp.jobtitleid = jobtitle.jobtitleid  
inner join labtimeworked tw  
on          emp.empid = tw.empid  
order by emp.empid;
```

Task 5.

```
select emp.empid,  
       emp.lastname,  
       emp.firstname,  
       ISNULL(jobtitle.title, '**Missing**') JobTitle,  
       tw.startwork,  
       tw.minutes/60  HoursWorked  
from   labemp emp  
left outer join labjobtitle jobtitle  
on      emp.jobtitleid = jobtitle.jobtitleid  
left outer join labtimeworked tw  
on      emp.empid = tw.empid  
order by emp.empid;
```

Task 6.

```
select      emp.empid,
            emp.lastname,
            emp.firstname,
            ISNULL(jobtitle.title, '**Missing**') JobTitle,
            tw.startwork,
            tw.minutes/60  HoursWorked
from        labemp emp
left outer join labjobtitle jobtitle
on          emp.jobtitleid = jobtitle.jobtitleid
left outer join labtimeworked tw
on          emp.empid = tw.empid
where month(startwork) = 3 and year(startwork) = year(getdate())
order by emp.empid;
```

Task 7.

```
select      emp.empid,
            emp.lastname,
            emp.firstname,
            ISNULL(jobtitle.title, '**Missing**') JobTitle,
            tw.startwork,
            work.description,
            tw.minutes/60  HoursWorked
from        labemp emp
left outer join labjobtitle jobtitle
on          emp.jobtitleid = jobtitle.jobtitleid
left outer join labtimeworked tw
on          emp.empid = tw.empid
inner join labwork work
on          tw.worktypeid = work.worktypeid
where month(startwork) = 3 and year(startwork) = year(getdate())
order by emp.empid;
```

Task 8.

```
select      emp.empid,
            emp.lastname,
            emp.firstname,
            ISNULL(jobtitle.title, '**Missing**') JobTitle,
            tw.startwork,
            work.description,
            tw.contractid,
            convert(varchar,contract.datedue, 107) DateDue,
            tw.minutes/60  HoursWorked
from        labemp emp
left outer join labjobtitle jobtitle
on          emp.jobtitleid = jobtitle.jobtitleid
left outer join labtimeworked tw
on          emp.empid = tw.empid
inner join labwork work
on          tw.worktypeid = work.worktypeid
inner join labcontract contract
on          tw.contractid = contract.contractid
where month(startwork) = 3 and year(startwork) = year(getdate())
order by emp.empid;
```

Task 9.

```
select      emp.empid,
            emp.lastname,
            emp.firstname,
            ISNULL(jobtitle.title, '**Missing**') JobTitle,
            tw.startwork,
            work.description,
            tw.contractid,
            convert(varchar,contract.datedue, 107) DateDue,
            client.name,
            tw.minutes/60  HoursWorked
from        labemp emp
left outer join labjobtitle jobtitle
on          emp.jobtitleid = jobtitle.jobtitleid
left outer join labtimeworked tw
on          emp.empid = tw.empid
inner join labwork work
on          tw.worktypeid = work.worktypeid
inner join labcontract contract
on          tw.contractid = contract.contractid
inner join labclient client
on          contract.clientid = client.clientid
where month(startwork) = 3 and year(startwork) = year(getdate())
order by emp.empid;
```

Task 10.

```
SELECT      emp.empid,
            lastname,
            sum(minutes/60) TotalHoursWorked
FROM        labemp emp
inner join labtimeworked tw
on          emp.empid = tw.empid
group by emp.empid,
         emp.lastname
```

Task 11.

```
SELECT      emp.empid,
            lastname,
            sum(minutes/60) TotalHoursWorked
FROM        labemp emp
LEFT OUTER join labtimeworked tw
on          emp.empid = tw.empid
group by emp.empid,
         emp.lastname
```

Task 12.

```
SELECT      emp.empid,
            lastname,
            count(tw.empid) CountOfRows,
            avg(minutes/60) AverageHoursPerRow,
            sum(minutes/60) TotalHoursWorked
FROM        labemp emp
left outer join labtimeworked tw
on          emp.empid = tw.empid
group by emp.empid,
         emp.lastname
```

Task 13.

```
SELECT      emp.empid,
            lastname,
            count(tw.empid) CountOfRows,
            ISNULL(avg(minutes/60),0) AverageHoursPerRow,
            ISNULL(sum(minutes/60),0) TotalHoursWorked
FROM        labemp emp
left outer join labtimeworked tw
on          emp.empid = tw.empid
group by emp.empid,
         emp.lastname
```

Task 14.

```
SELECT      emp.empid,
            lastname + ', ' + substring(firstname,1,1) + '.' EmployeeName,
            emp.billingrate
FROM        labemp emp
where emp.billingrate =
        (SELECT max(billingrate)
         FROM labemp)
```

Task 15.

```
SELECT      emp.empid,
            lastname + ', ' + substring(firstname,1,1) + '.' EmployeeName,
            ISNULL(jt.title, '**Missing**') JobTitle,
            emp.billingrate
FROM        labemp emp
LEFT OUTER JOIN labjobtitle jt
ON emp.jobtitleid = jt.jobtitleid
where emp.billingrate =
        (SELECT max(billingrate)
         FROM labemp)
```