Assignment 10

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PHP Test Code (attached to submission) (demo link here)

```
In [11]: <link rel="stylesheet" type="text/css" HREF="../css/style.css">

         <?php
         /**
          * Created by PhpStorm.
          * User: karen
          * Date: 10/27/18
          * Time: 12:00 PM
          */

         require_once('../connect/connect.php');
         require_once('../helper/schedulehelper.php');


         function insert($con, $dept, $date, $empid, $start_time, $firstname, $lastname)
         {
             $query = "SELECT length FROM shift WHERE from_time='$start_time'";
             $res = mysqli_query($con, $query);
             $num_lengths = mysqli_num_rows($res);
             if ($num_lengths > 1) {
                 echo '<h4><center>But there are multiple shift length at this start time!!</center></h4>
                 $i = 0;
                 while ($row = mysqli_fetch_assoc($res)) {
                     $i = $i + 1;
                     echo '<center><br><br>option ' . $i . ':  ' . $row['length'] . 'hrs <br></center>';
                 }
                 echo '<br><br><center>Which shift length? Please specify!</center>';
             } else {
                 $shift_length = mysqli_fetch_assoc($res)['length'];

                 $query = "INSERT INTO schedule (date, empid, dept, start_time, shift_length) VALUES
                             ('$date',
                              '$empid',
                              '$dept',
                              '$start_time',
```

```php
                             $shift_length)";
        echo '<center>SQL Query: ' . $query . '</center>';
        $result = mysqli_query($con, $query);
        if (!($result)) {
            $msg = 'MySQL error #' . mysqli_connect_errno() . ": " . mysqli_connect_error();
            printf($msg, __FILE__, __LINE__);
        } else {
            echo '<br><br><h4><center>Employee <i>' . $firstname . ' ' . $lastname . '</i> is
        }
    }
}


function schedule($con, $dept, $date, $empid, $start_time)
{
    $date = convert_date_format($date);

    $query = "SELECT firstname, lastname
                FROM employees
                WHERE empid = '$empid'";
    $result = mysqli_query($con, $query);

    if (0 == mysqli_num_rows($result)) {
        echo '<br><br><h4 style="color: red"><center>No Employee <i>' . $empid . '</i> in the da
    } else {
        $row = mysqli_fetch_assoc($result);
        $firstname = $row['firstname'];
        $lastname = $row['lastname'];

        $query = "SELECT *
                FROM schedule
                WHERE empid='$empid'
                AND date='$date'";

        $result = mysqli_query($con, $query);
        if (!($result)) {
            $msg = 'MySQL error #' . mysqli_connect_errno() . ": " . mysqli_connect_error();
            printf($msg, __FILE__, __LINE__);
        } else if (0 == mysqli_num_rows($result)) {
            $query = "SELECT *
                    FROM dayoff
                    WHERE empid='$empid'
                    AND date='$date'";
            $result = mysqli_query($con, $query);
            if (0 == mysqli_num_rows($result))
            {
                echo '<br>
                    <h4><center><i>' . $firstname . ' ' . $lastname . '</i> is open for schedule
```

```php
                insert($con, $dept, $date, $empid, $start_time, $firstname, $lastname);
            }else{
                echo '<br>
                    <h4><center><i>' . $firstname . ' ' . $lastname . '</i> can not be scheduled

            }


        } else {

            echo "<br><br>";
            echo "<h4 style='color: red'><center>Employee <i>" . $firstname . " " . $lastname .

            echo "<table class='table table-striped' border=1>";
            echo "<tr>";
            $i = 0;
            while ($i < mysqli_num_fields($result)) {
                $meta = mysqli_fetch_field_direct($result, $i);
                echo '<td>' . $meta->name . '</td>';
                $i = $i + 1;
            }

            while ($row = mysqli_fetch_assoc($result)) {
                echo "<tr>\n";
                foreach ($row as $cell) {
                    echo "<td> $cell </td>";
                }
                echo "</tr>\n";
            }

            echo "</table><br><br><br>";
        }
    }


}


function unschedule($con, $dept, $date, $empid)
{
    $date = convert_date_format($date);

    $query = "SELECT firstname, lastname
                FROM employees
                WHERE empid = '$empid'";
    $result = mysqli_query($con, $query);
```

```php
        if (0 == mysqli_num_rows($result)) {
            echo '<br><br>
                        <h4 style="color: red"><center>No Employee <i>' . $empid . '</i> in the data
        } else {
            $row = mysqli_fetch_assoc($result);

            $firstname = $row['firstname'];
            $lastname = $row['lastname'];


            $query = "SELECT *
                    FROM schedule
                    WHERE empid='$empid'
                    AND date='$date'
                    AND dept='$dept'";
            if (0 == mysqli_num_rows(mysqli_query($con, $query))) {

                echo '<br><br><center><h4 style="color: red">Employee <i>' . $firstname . ' ' . $las
            } else {
                $query = "DELETE FROM schedule WHERE dept='$dept' AND date='$date' AND empid='$empi
                $result = mysqli_query($con, $query);
                if ($result) {
                    echo '<center><h4>Employee <i>' . $firstname . ' ' . $lastname . '</i> is succes
                }
            }
        }
}


function request_day_off($con, $empid, $date)
{
    $date = convert_date_format($date);

    $query = "SELECT firstname, lastname
                FROM employees
                WHERE empid = '$empid'";
    $result = mysqli_query($con, $query);

    if (0 == mysqli_num_rows($result)) {
        echo '<br><br><h4 style="color: red"><center>No Employee <i>' . $empid . '</i> in the da
    } else {
        $row = mysqli_fetch_assoc($result);
        $firstname = $row['firstname'];
        $lastname = $row['lastname'];

        $query = "SELECT *
                FROM schedule
                WHERE empid='$empid'
```

```php
            AND date='$date'";
if (0 == mysqli_num_rows(mysqli_query($con, $query))) {

    $query = "SELECT *
        FROM dayoff
        WHERE empid='$empid'
        AND date='$date'";
    if (0 != mysqli_num_rows(mysqli_query($con, $query))) {
        echo '<br><h4><center><i>' . $firstname . ' ' . $lastname . '</i> has already re
    } else {
        echo '<br><h4><center><i>' . $firstname . ' ' . $lastname . '</i> is able to re

        $request = "INSERT INTO dayoff (empid, date) VALUES ('$empid', '$date')";
        $result = mysqli_query($con, $request);
        if (!($result)) {
            $msg = 'MySQL error #' . mysqli_connect_errno() . ": " . mysqli_connect_erro
            printf($msg, __FILE__, __LINE__);
        } else {
            echo "<center><h4>$date off for $firstname $lastname successfully requested!
        }
    }

} else {
    echo '<br><h4><center><i>' . $firstname . ' ' . $lastname . '</i> has already been s

    $query = "SELECT *
        FROM schedule
        WHERE empid='$empid'
        AND date='$date'";

    $result = mysqli_query($con, $query);

    echo "<table class='table table-striped' border=1>";
    echo "<tr>";
    $i = 0;
    while ($i < mysqli_num_fields($result)) {
        $meta = mysqli_fetch_field_direct($result, $i);
        echo '<td>' . $meta->name . '</td>';
        $i = $i + 1;
    }

    while ($row = mysqli_fetch_assoc($result)) {
        echo "<tr>\n";
        foreach ($row as $cell) {
            echo "<td> $cell </td>";
        }
        echo "</tr>\n";
    }
```

```php
            echo "</table><br><br><br>";
        }
    }
}


function test_cases($con)
{
    $dept_arr = array('EMERGENCY', 'PEDIATRICS', 'RADIOLOGY', 'ONCOLOGY');
    $empid_arr = array('853537', '854480', '878397', '898057', '945540', '995636', '123456');
    $date_arr = array('10-01-2018', '10-03-2018', '09-24-2018', '09-28-2018', '09-30-2018', '10-
    $start_time_arr = array('07:00:00', '19:00:00', '15:00:00', '23:00:00');

    $num_tests = 5;
    $i = 0;

    # test schedule:
    while ($i < $num_tests) {
        $i = $i + 1;
        echo '<h3 style="margin-left: 20%">Test  ' . $i . ':</h3><br><br>';

        echo '<br><br><br><h4 style="margin-left: 25%">Request A Day Off Case ' . $i . ':</h4><b

        $dept = $dept_arr[array_rand($dept_arr, 1)];
        $date = $date_arr[array_rand($date_arr, 1)];
        $empid = $empid_arr[array_rand($empid_arr, 1)];

        echo '<center>EmployeeID: '.$empid.'<br><br>Date: '.$date.'<br><br></center>';

        request_day_off($con, $empid, $date);

        echo '<h4 style="margin-left: 25%">Schedule Case ' . $i . ':</h4><br><br>';

        $dept = $dept_arr[array_rand($dept_arr, 1)];
        $date = $date_arr[array_rand($date_arr, 1)];
        $empid = $empid_arr[array_rand($empid_arr, 1)];
        $start_time = $start_time_arr[array_rand($start_time_arr, 1)];


        echo '<center>Department: '.$dept.'<br><br>Date: '.$date.'<br><br>EmployeeID: '.$empid.'

        schedule($con, $dept, $date, $empid, $start_time);

        echo '<br><br><br><h4 style="margin-left: 25%">Unschedule Case ' . $i . ':</h4><br><br>'

        $dept = $dept_arr[array_rand($dept_arr, 1)];
```

```
        $date = $date_arr[array_rand($date_arr, 1)];
        $empid = $empid_arr[array_rand($empid_arr, 1)];

        echo '<center>Department: '.$dept.'<br><br>Date: '.$date.'<br><br>EmployeeID: '.$empid.'

        unschedule($con, $dept, $date, $empid);


    }
}

test_cases($con);
```
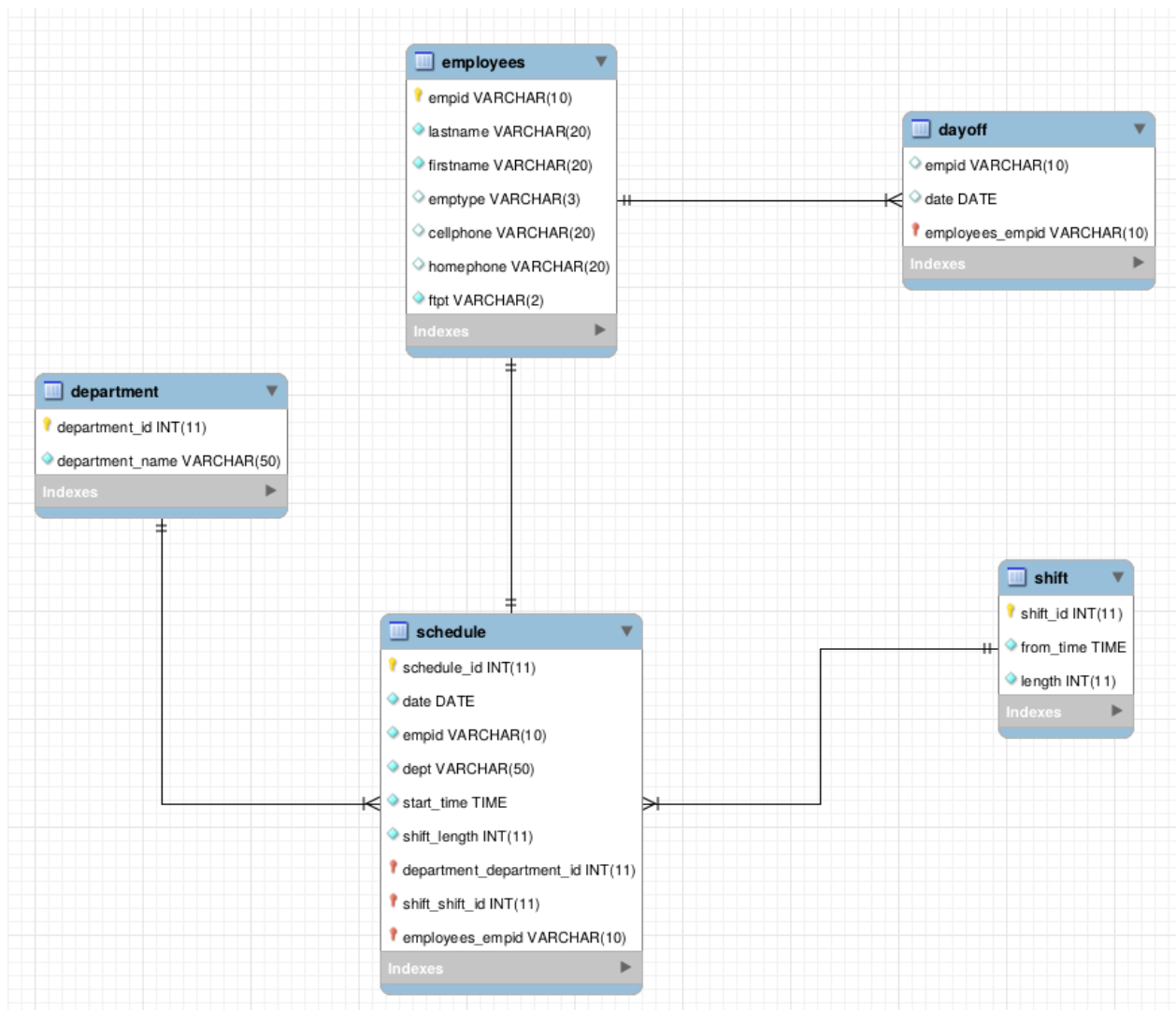
ER Diagram

Show and Describe Tables click for demo

php code

```
In [ ]: function showTables($con)
        {
            $query = "SHOW TABLES";
            $result = mysqli_query($con, $query);

            echo "<div style='margin-left: 30%; margin-right: auto'><h3>Show Tables:</h3></div>";

            while ($row = mysqli_fetch_assoc($result)) {
                foreach ($row as $table) {
                    echo "<center><h4>$table</h4></center>";
                    describeTable($con, $table);
                    echo "<br>";
                }
            }
        }


        function describeTable($con, $table)
        {
            $query = "DESCRIBE $table";
            $result = mysqli_query($con, $query);

            echo "<table class='table table-striped' style='text-align: center' border=1>";

            while($row = mysqli_fetch_array($result)) {
                echo "<tr>\n";
                echo "<td>{$row['Field']} - {$row['Type']}</td>";
                echo "</tr>\n";
            }
            echo "</table>";
        }


        showTables($con);
```

Show Tables:

dayoff

empid - varchar(10)
date - date

department

department_id - int(11)
department_name - varchar(50)

employees

empid - varchar(10)
lastname - varchar(20)
firstname - varchar(20)
emptype - varchar(3)
cellphone - varchar(20)
homephone - varchar(20)
ftpt - varchar(2)

schedule

schedule_id - int(11)
date - date
empid - varchar(10)
dept - varchar(50)
start_time - time
shift_length - int(11)

shift

shift_id - int(11)
from_time - time
length - int(11)

Test cases(randomly schedule employees) (click for demo)

display test results

Schedule Someone

Case 1: Try to schedule someone who has already been scheduled and unschedule someone who has not been scheduled.

Test 1:

Schedule Case 1:

Department: ONCOLOGY

Date: 10-03-2018

EmployeeID: 878397

StartTime: 23:00:00

Employee *Mikel Whitmarsh* has already been scheduled on 2018-10-03:

schedule_id	date	empid	dept	start_time	shift_length
4511	2018-10-03	878397	ONCOLOGY	19:00:00	12

Unschedule Case 1:

Department: EMERGENCY

Date: 09-30-2018

EmployeeID: 853537

StartTime: 23:00:00

Employee *Manie Zaragoza* has not been scheduled, please double check!!

Test 3:

Schedule Case 3:

Department: PEDIATRICS

Date: 09-28-2018

EmployeeID: 945540

StartTime: 07:00:00

Employee *Roderick Stager* has already been scheduled on 2018-09-28:

schedule_id	date	empid	dept	start_time	shift_length
1421	2018-09-28	945540	PEDIATRICS	15:00:00	8

Unschedule Case 3:

Department: ONCOLOGY

Date: 10-01-2018

EmployeeID: 995636

StartTime: 07:00:00

Employee *Deanna Pye* has not been scheduled, please double check!!

Case 2: Successfully schedule someone and unschedule someone who has not been scheduled.

Test 2:

Schedule Case 2:

Department: PEDIATRICS

Date: 10-03-2018

EmployeeID: 995636

StartTime: 19:00:00

Deanna Pye **is open for schedule on 2018-10-03 starting from 19:00:00 in PEDIATRICS**

SQL Query: INSERT INTO schedule (date, empid, dept, start_time, shift_length) VALUES ('2018-10-03', '995636', 'PEDIATRICS', '19:00:00', 12)

Employee *Deanna Pye* is scheduled on 2018-10-03 starting from 19:00:00 for 12 hours in PEDIATRICS

Unschedule Case 2:

Department: PEDIATRICS

Date: 10-01-2018

EmployeeID: 853537

StartTime: 19:00:00

Employee *Manie Zaragoza* has not been scheduled, please double check!!

Case 3: Try to schedule someone who is not in the system and unschedule someone who has not been scheduled.

Test 4:

Schedule Case 4:

Department: EMERGENCY

Date: 10-03-2018

EmployeeID: 123456

StartTime: 23:00:00

No Employee *123456* in the database! Please double check!

Unschedule Case 4:

Department: EMERGENCY

Date: 10-03-2018

EmployeeID: 898057

StartTime: 23:00:00

Employee *Lorenzo Blagg* has not been scheduled, please double check!!

Case 4: Try to schedule someone who has already been scheduled and successfully unschedule someone.

Test 5:

Schedule Case 5:

Department: PEDIATRICS

Date: 09-24-2018

EmployeeID: 854480

StartTime: 23:00:00

Employee *Remona Locke* has already been scheduled on 2018-09-24:

schedule_id	date	empid	dept	start_time	shift_length
4501	2018-09-24	854480	PEDIATRICS	15:00:00	8

Unschedule Case 5:

Department: ONCOLOGY

Date: 09-30-2018

EmployeeID: 878397

StartTime: 23:00:00

Employee *Mikel Whitmarsh* is successfully unscheduled on 2018-09-30 in the ONCOLOGY department.

Request a Day Off

Case 1: Successfully request a day off.

Request A Day Off Case 1:

EmployeeID: 898057

Date: 09-28-2018

Lorenzo Blagg is able to request a day off on 2018-09-28

2018-09-28 off for Lorenzo Blagg successfully requested!

Case 2: Fail to request a day off because the employee has already been scheduled.

Request A Day Off Case 2:

EmployeeID: 854480

Date: 09-28-2018

Remona Locke has already been scheduled and is not able to request a day off on 2018-09-28

schedule_id	date	empid	dept	start_time	shift_length
1401	2018-09-28	854480	RADIOLOGY	15:00:00	8

Case 3: Fail to request a day off because the employee is not in the system.

Request A Day Off Case 2:

EmployeeID: 123456

Date: 09-28-2018

No Employee *123456* in the database! Please double check!

Salary Report (click for demo)

Define Salary

```
ALTER TABLE employees ADD COLUMN wage_per_hrs FLOAT AFTER ftpt;

UPDATE employees SET wage_per_hrs=
CASE
WHEN emptype='LPN' AND ftpt = 'FT' THEN ROUND(RAND() * (25 - 15 + 1) + 15, 3)
WHEN emptype='LPN' AND ftpt = 'PT' THEN ROUND(0.8*(RAND() * (25 - 15 + 1) + 15), 3)
WHEN emptype='RN' AND ftpt = 'FT' THEN ROUND(RAND() * (35 - 25 + 1) + 25, 3)
WHEN emptype='RN' AND ftpt = 'PT' THEN ROUND(0.8*(RAND() * (35 - 25 + 1) + 25), 3)
ELSE ROUND(RAND() * (30 - 20 + 1) + 20, 3)
END;
```

Salary Report

```
<?php require_once ('navbar.php') ;
require_once ('../connect/connect.php');
?>

<meta name="viewport" content="width=device-width, height=device-height, initial-scale=1.0">
```

```php
<?php

$query = "
SELECT DEPARTMENT,
EMPLOYEE_TYPE,
CONCAT(DATE_FORMAT(START_TIME, '%I%p'),
'-',
DATE_FORMAT(DATE_ADD(START_TIME, INTERVAL SHIFT_LEN HOUR), '%I%p')) AS SHIFT,
CONCAT('$',SUM(EACH_COST)) AS COST FROM
(SELECT s.dept AS DEPARTMENT,
IF(LENGTH(e.emptype)=0, 'NA', e.emptype) AS EMPLOYEE_TYPE,
s.start_time AS START_TIME, s.shift_length AS SHIFT_LEN,
IF(s.start_time>'16:00:00' OR (s.start_time>'12:00:00' AND s.shift_length=12),
ROUND(s.shift_length*e.wage_per_hrs*1.2, 3),
ROUND((s.shift_length*e.wage_per_hrs), 3)) AS EACH_COST
FROM schedule AS s, employees AS e
WHERE s.empid = e.empid
ORDER BY s.start_time) AS tmp
GROUP BY DEPARTMENT, EMPLOYEE_TYPE, SHIFT
ORDER BY DEPARTMENT, EMPLOYEE_TYPE, START_TIME, DATE_ADD(START_TIME,
INTERVAL SHIFT_LEN HOUR);
";

$result = mysqli_query($con, $query);

echo "<center><h2>Salary Report</h2></center>";
echo "<br><table class='table table-striped' border=1>";
echo "<tr>";
$i = 0;
while ($i < mysqli_num_fields($result)) {
$meta = mysqli_fetch_field_direct($result, $i);
echo '<td>' . $meta->name . '</td>';
$i = $i + 1;
}

while ($row = mysqli_fetch_assoc($result)) {
echo "<tr>\n";
foreach ($row as $cell) {
echo "<td> $cell </td>";
}
echo "</tr>\n";
}

echo "</table><br><br><br>";
```

display results

CARDIOLOGY	LPN	07AM-03PM	$867.144
CARDIOLOGY	LPN	07AM-07PM	$1085.352
CARDIOLOGY	LPN	03PM-11PM	$1313.992
CARDIOLOGY	LPN	07PM-07AM	$1136.160
CARDIOLOGY	LPN	11PM-07AM	$770.218
CARDIOLOGY	NA	07AM-03PM	$325.536
CARDIOLOGY	NA	07AM-07PM	$348.936
CARDIOLOGY	NA	03PM-11PM	$1114.512
CARDIOLOGY	NA	07PM-07AM	$1879.718
CARDIOLOGY	NA	11PM-07AM	$854.486
CARDIOLOGY	RN	07AM-03PM	$1065.296
CARDIOLOGY	RN	07AM-07PM	$1091.508
CARDIOLOGY	RN	03PM-11PM	$833.280
CARDIOLOGY	RN	07PM-07AM	$422.136
CARDIOLOGY	RN	11PM-07AM	$511.142
EMERGENCY	LPN	07AM-03PM	$566.752
EMERGENCY	LPN	07AM-07PM	$488.640
EMERGENCY	LPN	03PM-11PM	$718.688
EMERGENCY	LPN	07PM-07AM	$873.647

EMERGENCY	LPN	11PM-07AM	$658.743
EMERGENCY	NA	07AM-03PM	$1572.000
EMERGENCY	NA	07AM-07PM	$244.152
EMERGENCY	NA	03PM-11PM	$1084.320
EMERGENCY	NA	07PM-07AM	$855.663
EMERGENCY	NA	11PM-07AM	$1884.442
EMERGENCY	RN	07AM-03PM	$1115.232
EMERGENCY	RN	07AM-07PM	$760.872
EMERGENCY	RN	03PM-11PM	$896.952
EMERGENCY	RN	07PM-07AM	$753.336
EMERGENCY	RN	11PM-07AM	$1095.849
INTENSIVE CARE	LPN	07AM-03PM	$700.768
INTENSIVE CARE	LPN	07AM-07PM	$239.220
INTENSIVE CARE	LPN	03PM-11PM	$290.496
INTENSIVE CARE	LPN	07PM-07AM	$367.229
INTENSIVE CARE	LPN	11PM-07AM	$552.250
INTENSIVE CARE	NA	07AM-03PM	$1454.792
INTENSIVE CARE	NA	03PM-11PM	$833.896
INTENSIVE CARE	NA	07PM-07AM	$1574.712

INTENSIVE CARE	NA	11PM-07AM	$756.116
INTENSIVE CARE	RN	07AM-03PM	$850.280
INTENSIVE CARE	RN	07AM-07PM	$629.760
INTENSIVE CARE	RN	03PM-11PM	$603.760
INTENSIVE CARE	RN	07PM-07AM	$1309.810
INTENSIVE CARE	RN	11PM-07AM	$594.787
MATERNITY	LPN	07AM-03PM	$1211.024
MATERNITY	LPN	07AM-07PM	$922.620
MATERNITY	LPN	03PM-11PM	$1161.560
MATERNITY	LPN	07PM-07AM	$760.896
MATERNITY	LPN	11PM-07AM	$566.544
MATERNITY	NA	07AM-03PM	$381.184
MATERNITY	NA	07AM-07PM	$244.152
MATERNITY	NA	03PM-11PM	$632.656
MATERNITY	NA	07PM-07AM	$1800.116
MATERNITY	NA	11PM-07AM	$442.820
MATERNITY	RN	07AM-03PM	$778.592
MATERNITY	RN	07AM-07PM	$953.676
MATERNITY	RN	03PM-11PM	$670.520

MATERNITY	RN	07PM-07AM	$2086.070
MATERNITY	RN	11PM-07AM	$908.044
ONCOLOGY	LPN	07AM-03PM	$660.104
ONCOLOGY	LPN	07AM-07PM	$956.508
ONCOLOGY	LPN	03PM-11PM	$1134.904
ONCOLOGY	LPN	07PM-07AM	$1250.380
ONCOLOGY	LPN	11PM-07AM	$876.490
ONCOLOGY	NA	07AM-03PM	$452.464
ONCOLOGY	NA	07AM-07PM	$1003.428
ONCOLOGY	NA	03PM-11PM	$370.688
ONCOLOGY	NA	07PM-07AM	$1402.934
ONCOLOGY	NA	11PM-07AM	$1841.674
ONCOLOGY	RN	07AM-03PM	$1926.440
ONCOLOGY	RN	07AM-07PM	$729.780
ONCOLOGY	RN	03PM-11PM	$880.896
ONCOLOGY	RN	07PM-07AM	$2009.262
ONCOLOGY	RN	11PM-07AM	$607.373
PEDIATRICS	LPN	07AM-03PM	$1149.944
PEDIATRICS	LPN	07AM-07PM	$1123.500

PEDIATRICS	LPN	03PM-11PM	$671.080
PEDIATRICS	LPN	07PM-07AM	$302.832
PEDIATRICS	LPN	11PM-07AM	$811.969
PEDIATRICS	NA	07AM-03PM	$1082.760
PEDIATRICS	NA	07AM-07PM	$276.876
PEDIATRICS	NA	03PM-11PM	$1097.200
PEDIATRICS	NA	07PM-07AM	$430.675
PEDIATRICS	NA	11PM-07AM	$961.075
PEDIATRICS	RN	07AM-03PM	$477.360
PEDIATRICS	RN	07AM-07PM	$302.460
PEDIATRICS	RN	03PM-11PM	$669.608
PEDIATRICS	RN	07PM-07AM	$1182.471
PEDIATRICS	RN	11PM-07AM	$1031.328
RADIOLOGY	LPN	07AM-03PM	$563.144
RADIOLOGY	LPN	07AM-07PM	$738.924
RADIOLOGY	LPN	03PM-11PM	$1644.664
RADIOLOGY	LPN	07PM-07AM	$1080.748
RADIOLOGY	LPN	11PM-07AM	$1297.065
RADIOLOGY	NA	07AM-03PM	$400.944

RADIOLOGY	NA	07AM-07PM	$908.952
RADIOLOGY	NA	03PM-11PM	$1011.920
RADIOLOGY	NA	07PM-07AM	$1816.704
RADIOLOGY	NA	11PM-07AM	$1366.848
RADIOLOGY	RN	07AM-03PM	$896.232
RADIOLOGY	RN	07AM-07PM	$602.640
RADIOLOGY	RN	03PM-11PM	$695.864
RADIOLOGY	RN	07PM-07AM	$775.166
RADIOLOGY	RN	11PM-07AM	$463.594
SURGERY	LPN	07AM-03PM	$436.024
SURGERY	LPN	07AM-07PM	$870.420
SURGERY	LPN	03PM-11PM	$109.280
SURGERY	LPN	11PM-07AM	$997.756
SURGERY	NA	07AM-03PM	$668.760
SURGERY	NA	07AM-07PM	$348.936
SURGERY	NA	03PM-11PM	$1313.584
SURGERY	NA	07PM-07AM	$330.163
SURGERY	NA	11PM-07AM	$1508.842
SURGERY	RN	07AM-03PM	$1576.680

SURGERY	RN	07AM-07PM	$364.260
SURGERY	RN	03PM-11PM	$854.920
SURGERY	RN	07PM-07AM	$364.882
SURGERY	RN	11PM-07AM	$1445.453