

IS475/675 HW#5

Using SQL with Multiple Tables

Each of the questions below requires you to create a SELECT statement to satisfy the request. There are 15 questions for this assignment. Creating an accurate result table is your primary goal for 14 of the questions. An accurate result table includes conversion of fields to the appropriate data type (for example, converting a calculated or aggregated field to a MONEY data type when necessary) and sorting the result table. Either the left-most or right-most column in the output should normally be used to sort the result table. Question #1 is not a query question – question #1 asks you to modify the structure of a table, and to update the data in that table with the SQL UPDATE statement.

Before starting this homework assignment, I want you to change the data type of two fields in one table – the EmployeePay table. In the EmployeePay table, I want the DateStartPay and DateEnd fields to be datetime data types rather than date data types. The easiest way to complete this change is to just drop the table, create it, and repopulate it. Some of the DateEnd fields need to have a time in them, so it seemed most expedient if I just created a SQL script file that would accomplish those goals for you. The file is called BuildEmployeePay-HW5.sql and is located on the K: drive in the IS475\CutGlassS15 folder.

The names of the tables and fields are the ones I used for the assignment. If you named your tables and fields something else, then feel free to modify this script file to work with your database. The two goals of this script file are to rebuild the EmployeePay table to change the datatype of the DateStartPay and DateEnd fields, and to add a time to some of the DateEnd fields, so feel free to accomplish those goals however works best for your database. I recommend doing this before starting on the questions for this assignment.

Deliverables

Turn in two deliverables for this assignment:

- (1) Paper-based output (one per team): Please refer to HW#4 for a description of the paper-based output.
- (2) A computer file with SQL code uploaded to the "Assignment Uploads" disk on the COBA computer server in the IS475\HW5 directory. The computer file should contain all SQL code required to complete the assignment. Please clearly mark in that file the number of the question answered. The file can be in MS Word or text format and should be uploaded to the Assignment Uploads disk on the COBA computer server in the IS475\HW5 folder. The purpose of this file is so that I can test your SQL code directly if I have any questions/issues with it so please don't include a "picture" of your SQL code – I need a text-based version of the SQL code. Do NOT snip your code with the Windows snipping tool for this deliverable. I want an actual copy of your SQL code. Name your file with your lastname and HW5. For example, my file would be called EdbergHW5.txt (if using a txt format file). If you are working in a team, then use the team number. For example, Team11HW5.docx (if using a Word file).

Here are the questions:

1. Modify the Job table:
 - a) Add a column to the table for DateDue. It should be a date data type. Be sure to turn in your ALTER statement.
 - b) UPDATE the new column with the DateDue data given below. I list the JobID and the new DateDue for each job. If using the UPDATE command, you will have to write 10 UPDATE statements.

	JobID	DateDue
1	15771	NULL
2	16885	2015-01-15
3	32687	2014-08-01
4	55841	2013-08-01
5	55873	2013-10-01
6	55878	2013-09-15
7	62254	2014-11-20
8	62257	2014-11-18
9	78431	2015-02-06
10	91584	2014-04-01

2. List all jobs with a DateDue in the previous year (i.e. 2014 if the code is run in 2015). Use GETDATE() to determine the previous year. Calculate the difference in days between the Date a job was accepted and the date it was due. Result table:

	JobID	JobName	ClientName	ClientZip	DateAccepted	DateDue	DaysToComplete	EmpManagerID
1	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	89541	2014-07-25	2014-08-01	7	NULL
2	62254	Dew Drop, Meadow Wood-1	Dew Drop Inn Luxury Suites	89509	2014-10-04	2014-11-20	47	4702
3	62257	Dew Drop, Meadow Wood-2	Dew Drop Inn Luxury Suites	89509	2014-10-04	2014-11-18	45	4702
4	91584	Restaurant Remodel	Adam's Rib Restaurant	96161	2014-03-20	2014-04-01	12	4702

3. Modify the query written for question #2 to replace the EmpManagerID in the result table with the name of the employee who was the manager for the purchase order. If the manager is null, display the message “No Manager” in the column. If the manager is not null, then concatenate the FirstName and LastName of the employee into a single column with a space between the first and last names. Result table:

	JobID	JobName	ClientName	ClientZip	DateAccepted	DateDue	DaysToComplete	ManagerName
1	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager
2	62254	Dew Drop, Meadow Wood-1	Dew Drop Inn Luxury Suites	89509	Oct 04, 2014	Nov 20, 2014	47	Vance Martin Walker
3	62257	Dew Drop, Meadow Wood-2	Dew Drop Inn Luxury Suites	89509	Oct 04, 2014	Nov 18, 2014	45	Vance Martin Walker
4	91584	Restaurant Remodel	Adam's Rib Restaurant	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker

4. Modify the query written for question #3 to include information about the tasks on each of the jobs listed in query #3, as shown below. The data about each task on a job includes the taskID, DateStarted, and DateCompleted for the task. The result table should be sorted by taskID within JobID. JobID should be the primary sort key. Result table:

	JobID	JobName	ClientName	ClientZip	DateAccepted	DateDue	DaysToComplete	ManagerName	taskID	DateStarted	DateCompleted
1	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	110	Jul 31, 2014	Jul 31, 2014
2	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	130	Aug 04, 2014	Aug 04, 2014
3	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	150	Aug 04, 2014	Aug 07, 2014
4	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	160	Aug 11, 2014	Aug 14, 2014
5	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	170	Aug 18, 2014	Aug 18, 2014
6	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	180	Aug 22, 2014	Aug 22, 2014
7	62254	Dew Drop, Meadow Wood-1	Dew Drop Inn Luxury Suites	89509	Oct 04, 2014	Nov 20, 2014	47	Vance Martin Walker	150	Oct 14, 2014	Oct 24, 2014
8	62254	Dew Drop, Meadow Wood-1	Dew Drop Inn Luxury Suites	89509	Oct 04, 2014	Nov 20, 2014	47	Vance Martin Walker	160	Oct 16, 2014	Oct 30, 2014
9	62254	Dew Drop, Meadow Wood-1	Dew Drop Inn Luxury Suites	89509	Oct 04, 2014	Nov 20, 2014	47	Vance Martin Walker	170	Oct 21, 2014	Oct 31, 2014
10	62254	Dew Drop, Meadow Wood-1	Dew Drop Inn Luxury Suites	89509	Oct 04, 2014	Nov 20, 2014	47	Vance Martin Walker	180	Oct 30, 2014	Nov 03, 2014
11	62257	Dew Drop, Meadow Wood-2	Dew Drop Inn Luxury Suites	89509	Oct 04, 2014	Nov 18, 2014	45	Vance Martin Walker	150	Oct 30, 2014	Nov 03, 2014
12	62257	Dew Drop, Meadow Wood-2	Dew Drop Inn Luxury Suites	89509	Oct 04, 2014	Nov 18, 2014	45	Vance Martin Walker	160	Nov 03, 2014	Nov 07, 2014
13	62257	Dew Drop, Meadow Wood-2	Dew Drop Inn Luxury Suites	89509	Oct 04, 2014	Nov 18, 2014	45	Vance Martin Walker	170	Nov 07, 2014	Nov 12, 2014
14	62257	Dew Drop, Meadow Wood-2	Dew Drop Inn Luxury Suites	89509	Oct 04, 2014	Nov 18, 2014	45	Vance Martin Walker	180	Nov 13, 2014	Nov 18, 2014
15	91584	Restaurant Remodel	Adam's Rib Restaurant	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	150	Mar 31, 2014	Apr 02, 2014
16	91584	Restaurant Remodel	Adam's Rib Restaurant	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	160	Apr 07, 2014	Apr 11, 2014
17	91584	Restaurant Remodel	Adam's Rib Restaurant	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	170	Apr 14, 2014	Apr 14, 2014
18	91584	Restaurant Remodel	Adam's Rib Restaurant	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	180	Apr 18, 2014	Apr 21, 2014
19	91584	Restaurant Remodel	Adam's Rib Restaurant	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	230	Apr 03, 2014	Apr 04, 2014

5. Modify the query written for question #4 to remove the JobName and ClientName and include the TaskDescription. The result table is shown below.

	JobID	ClientZip	DateAccepted	DateDue	DaysToComplete	ManagerName	taskID	TaskDescription	DateStarted	DateCompleted
1	32687	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	110	Remove Existing Floor	Jul 31, 2014	Jul 31, 2014
2	32687	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	130	Install sub-floor	Aug 04, 2014	Aug 04, 2014
3	32687	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	150	Prepare sub floor	Aug 04, 2014	Aug 07, 2014
4	32687	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	160	Install tile floor	Aug 11, 2014	Aug 14, 2014
5	32687	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	170	Grout	Aug 18, 2014	Aug 18, 2014
6	32687	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	180	Seal and finish work	Aug 22, 2014	Aug 22, 2014
7	62254	89509	Oct 04, 2014	Nov 20, 2014	47	Vance Martin Walker	150	Prepare sub floor	Oct 14, 2014	Oct 24, 2014
8	62254	89509	Oct 04, 2014	Nov 20, 2014	47	Vance Martin Walker	160	Install tile floor	Oct 16, 2014	Oct 30, 2014
9	62254	89509	Oct 04, 2014	Nov 20, 2014	47	Vance Martin Walker	170	Grout	Oct 21, 2014	Oct 31, 2014
10	62254	89509	Oct 04, 2014	Nov 20, 2014	47	Vance Martin Walker	180	Seal and finish work	Oct 30, 2014	Nov 03, 2014
11	62257	89509	Oct 04, 2014	Nov 18, 2014	45	Vance Martin Walker	150	Prepare sub floor	Oct 30, 2014	Nov 03, 2014
12	62257	89509	Oct 04, 2014	Nov 18, 2014	45	Vance Martin Walker	160	Install tile floor	Nov 03, 2014	Nov 07, 2014
13	62257	89509	Oct 04, 2014	Nov 18, 2014	45	Vance Martin Walker	170	Grout	Nov 07, 2014	Nov 12, 2014
14	62257	89509	Oct 04, 2014	Nov 18, 2014	45	Vance Martin Walker	180	Seal and finish work	Nov 13, 2014	Nov 18, 2014
15	91584	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	150	Prepare sub floor	Mar 31, 2014	Apr 02, 2014
16	91584	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	160	Install tile floor	Apr 07, 2014	Apr 11, 2014
17	91584	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	170	Grout	Apr 14, 2014	Apr 14, 2014
18	91584	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	180	Seal and finish work	Apr 18, 2014	Apr 21, 2014
19	91584	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	230	Install tile counter	Apr 03, 2014	Apr 04, 2014

6. Final modification. Modify the query written for question #5 to include a self-join with the Job table. The goal of the self-join is to include the JobName of the primary job that is related to the job – I named the JobName associated with the PrimaryJobID as PrimaryJobName in the result table. I used the ISNULL function to put the message "No Primary Job Name" into the PrimaryJobName column.

	JobID	ClientZip	DateAccepted	DateDue	DaysToComplete	ManagerName	PrimaryJobName	taskID	TaskDescription	DateStarted	DateCompleted
1	32687	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	No Primary Job Name	110	Remove Existing Floor	Jul 31, 2014	Jul 31, 2014
2	32687	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	No Primary Job Name	130	Install sub-floor	Aug 04, 2014	Aug 04, 2014
3	32687	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	No Primary Job Name	150	Prepare sub floor	Aug 04, 2014	Aug 07, 2014
4	32687	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	No Primary Job Name	160	Install tile floor	Aug 11, 2014	Aug 14, 2014
5	32687	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	No Primary Job Name	170	Grout	Aug 18, 2014	Aug 18, 2014
6	32687	89541	Jul 25, 2014	Aug 01, 2014	7	No Manager	No Primary Job Name	180	Seal and finish work	Aug 22, 2014	Aug 22, 2014
7	62254	89509	Oct 04, 2014	Nov 20, 2014	47	Vance Martin Walker	No Primary Job Name	150	Prepare sub floor	Oct 14, 2014	Oct 24, 2014
8	62254	89509	Oct 04, 2014	Nov 20, 2014	47	Vance Martin Walker	No Primary Job Name	160	Install tile floor	Oct 16, 2014	Oct 30, 2014
9	62254	89509	Oct 04, 2014	Nov 20, 2014	47	Vance Martin Walker	No Primary Job Name	170	Grout	Oct 21, 2014	Oct 31, 2014
10	62254	89509	Oct 04, 2014	Nov 20, 2014	47	Vance Martin Walker	No Primary Job Name	180	Seal and finish work	Oct 30, 2014	Nov 03, 2014
11	62257	89509	Oct 04, 2014	Nov 18, 2014	45	Vance Martin Walker	Dew Drop, Meadow Wood-1	150	Prepare sub floor	Oct 30, 2014	Nov 03, 2014
12	62257	89509	Oct 04, 2014	Nov 18, 2014	45	Vance Martin Walker	Dew Drop, Meadow Wood-1	160	Install tile floor	Nov 03, 2014	Nov 07, 2014
13	62257	89509	Oct 04, 2014	Nov 18, 2014	45	Vance Martin Walker	Dew Drop, Meadow Wood-1	170	Grout	Nov 07, 2014	Nov 12, 2014
14	62257	89509	Oct 04, 2014	Nov 18, 2014	45	Vance Martin Walker	Dew Drop, Meadow Wood-1	180	Seal and finish work	Nov 13, 2014	Nov 18, 2014
15	91584	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	No Primary Job Name	150	Prepare sub floor	Mar 31, 2014	Apr 02, 2014
16	91584	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	No Primary Job Name	160	Install tile floor	Apr 07, 2014	Apr 11, 2014
17	91584	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	No Primary Job Name	170	Grout	Apr 14, 2014	Apr 14, 2014
18	91584	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	No Primary Job Name	180	Seal and finish work	Apr 18, 2014	Apr 21, 2014
19	91584	96161	Mar 20, 2014	Apr 01, 2014	12	Vance Martin Walker	No Primary Job Name	230	Install tile counter	Apr 03, 2014	Apr 04, 2014

7. Time for a new, but similar type of query! List information about all JobTasks in the JobTask table that have a JobTask DateCompleted that is greater than the DateDue for the Job (in the Job table). Sort the output by TaskID within JobID. Result table:

	JobID	JobName	ClientName	Taskid	TaskDescription	DateDue	DateCompleted	DaysOverdue
2	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	150	Prepare sub floor	2014-08-01	2014-08-07	6
3	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	160	Install tile floor	2014-08-01	2014-08-14	13
4	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	170	Grout	2014-08-01	2014-08-18	17
5	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	180	Seal and finish work	2014-08-01	2014-08-22	21
6	55878	AO Reid - Wonder Valley PH 2-4	AO Reid Construction	150	Prepare sub floor	2013-09-15	2013-09-16	1
7	55878	AO Reid - Wonder Valley PH 2-4	AO Reid Construction	160	Install tile floor	2013-09-15	2013-09-20	5
8	55878	AO Reid - Wonder Valley PH 2-4	AO Reid Construction	170	Grout	2013-09-15	2013-09-24	9
9	55878	AO Reid - Wonder Valley PH 2-4	AO Reid Construction	180	Seal and finish work	2013-09-15	2013-09-30	15
10	91584	Restaurant Remodel	Adam's Rib Restaurant	150	Prepare sub floor	2014-04-01	2014-04-02	1
11	91584	Restaurant Remodel	Adam's Rib Restaurant	160	Install tile floor	2014-04-01	2014-04-11	10
12	91584	Restaurant Remodel	Adam's Rib Restaurant	170	Grout	2014-04-01	2014-04-14	13
13	91584	Restaurant Remodel	Adam's Rib Restaurant	180	Seal and finish work	2014-04-01	2014-04-21	20
14	91584	Restaurant Remodel	Adam's Rib Restaurant	230	Install tile counter	2014-04-01	2014-04-04	3

8. Modify query #7 so that it also shows the job tasks that haven't been completed yet (DateCompleted is null) as of when your SQL code runs, but are beyond the due date of the job. I ran this SQL code on 2/18/2015, so the DaysOverdue calculation reflect that current date. Your output should reflect the current date when it is run. Result table:

	JobID	JobName	ClientName	Taskid	TaskDescription	DateDue	DateCompleted	DaysOverdue
1	16885	Hampstead, Bathroom #2	Ms. Catherine Hampstead	160	Install tile floor	Jan 15, 2015	Not Done	34
2	16885	Hampstead, Bathroom #2	Ms. Catherine Hampstead	170	Grout	Jan 15, 2015	Not Done	34
3	16885	Hampstead, Bathroom #2	Ms. Catherine Hampstead	180	Seal and finish work	Jan 15, 2015	Not Done	34
4	16885	Hampstead, Bathroom #2	Ms. Catherine Hampstead	240	Install tile wall	Jan 15, 2015	Not Done	34
5	16885	Hampstead, Bathroom #2	Ms. Catherine Hampstead	260	Build mosaic/glass	Jan 15, 2015	Not Done	34
6	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	130	Install sub-floor	Aug 01, 2014	Aug 04, 2014	3
7	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	150	Prepare sub floor	Aug 01, 2014	Aug 07, 2014	6
8	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	160	Install tile floor	Aug 01, 2014	Aug 14, 2014	13
9	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	170	Grout	Aug 01, 2014	Aug 18, 2014	17
10	32687	Hampstead, Bathroom 1	Ms. Catherine Hampstead	180	Seal and finish work	Aug 01, 2014	Aug 22, 2014	21
11	55878	AO Reid - Wonder Valley PH 2-4	AO Reid Construction	150	Prepare sub floor	Sep 15, 2013	Sep 16, 2013	1
12	55878	AO Reid - Wonder Valley PH 2-4	AO Reid Construction	160	Install tile floor	Sep 15, 2013	Sep 20, 2013	5
13	55878	AO Reid - Wonder Valley PH 2-4	AO Reid Construction	170	Grout	Sep 15, 2013	Sep 24, 2013	9
14	55878	AO Reid - Wonder Valley PH 2-4	AO Reid Construction	180	Seal and finish work	Sep 15, 2013	Sep 30, 2013	15
15	78431	Custom Stained Glass Part.	Casem, Brokaw and Stu...	190	Install mosaic	Feb 06, 2015	Not Done	12
16	78431	Custom Stained Glass Part.	Casem, Brokaw and Stu...	200	Build structure	Feb 06, 2015	Not Done	12
17	78431	Custom Stained Glass Part.	Casem, Brokaw and Stu...	260	Build mosaic/glass	Feb 06, 2015	Not Done	12
18	91584	Restaurant Remodel	Adam's Rib Restaurant	150	Prepare sub floor	Apr 01, 2014	Apr 02, 2014	1
19	91584	Restaurant Remodel	Adam's Rib Restaurant	160	Install tile floor	Apr 01, 2014	Apr 11, 2014	10
20	91584	Restaurant Remodel	Adam's Rib Restaurant	170	Grout	Apr 01, 2014	Apr 14, 2014	13
21	91584	Restaurant Remodel	Adam's Rib Restaurant	180	Seal and finish work	Apr 01, 2014	Apr 21, 2014	20
22	91584	Restaurant Remodel	Adam's Rib Restaurant	230	Install tile counter	Apr 01, 2014	Apr 04, 2014	3

9. Time for a new query! List the material costs by task for JobID 91584. The TotalCost is the CostPerUOM in the MaterialPurchased table multiplied by the Quantity assigned in the MaterialAssigned table. Cast or CONVERT the TotalCost to a money data type. Sort the result table by materialID within taskID. Result table:

	JobID	TaskID	MaterialID	Quantity	CostPerUOM	ActualCost
1	91584	150	2000	313.87	1.00	313.87
2	91584	160	1010	7.00	13.00	91.00
3	91584	160	1080	1300.00	8.95	11635.00
4	91584	160	2000	36.80	1.00	36.80
5	91584	170	1150	163.00	0.95	154.85
6	91584	180	1170	7.00	24.00	168.00
7	91584	230	1080	45.00	9.55	429.75
8	91584	230	1150	4.00	0.99	3.96

10. Modify query #9 to summarize the costs of materials by taskID. Result table:

	JobID	TaskID	ActualQuantity	ActualCost
1	91584	150	313.87	313.87
2	91584	160	1343.80	11762.80
3	91584	170	163.00	154.85
4	91584	180	7.00	168.00
5	91584	230	49.00	433.71

11. Modify query #10 to compare the actual material costs generated in that query to the estimated material costs in the JobTask table. Calculate the difference between the estimated cost of materials for a task to the actual cost for the materials for a task. Result table:

	JobID	TaskID	DateCompleted	EstMaterialCost	ActualCost	DifferenceEstActual
1	91584	150	2014-04-02	300.00	313.87	-13.87
2	91584	160	2014-04-11	11590.00	11762.80	-172.80
3	91584	170	2014-04-14	150.00	154.85	-4.85
4	91584	180	2014-04-21	175.00	168.00	7.00
5	91584	230	2014-04-04	400.00	433.71	-33.71

12. Modify query #11 to summarize the estimated material cost and actual material cost for the entire job. This may prove to be difficult because of the way that joins work. The MaterialAssigned table is the child of the JobTask table in the relationship between the two. Thus, a join between the two will always produce a result table with the number of rows in the child table (MaterialAssigned). This may yield an incorrect result if you are trying to sum a quantity that is in the parent table, while also summing a quantity that is in the child table. Hint: Use a sub-query in the SELECT list to get the correct sum of the EstMaterialCost in the parent table (JobTask).

	JobID	EstimatedMaterialCost	ActualMaterialCost	DifferenceEstActual
1	91584	12615.00	12833.23	-218.23

13. Time for a new query! Summarize the total amount of time worked for each employee in the database. In addition to summing the HoursWorked, also count the number of TimeSheets for each employee. Result table:

	EmpID	EmployeeName	TotalHoursWorked	NumberofTimeSheets
1	2300	Riggs, Evelyn	88.75	24
2	2480	Hazelton, Blake	89.80	29
3	3155	Allen, Noel	54.25	14
4	4702	Walker, Vance Martin	22.00	6
5	5291	Kinney, Deneece	124.30	33
6	5862	Bridges, Carol	139.75	35
7	6460	Kane, Sylvia	68.15	21
8	7651	Galloway, Odessa	0.00	0
9	7656	Wiggins, Cody	101.80	27
10	8110	Burgess, DaraLee	33.25	9
11	8750	Fleming, Cathleen	28.50	8

14. Another new query! Summarize all the time worked in the TimeSheet table by task. Result table:

	TaskID	TaskDescription	TotalHours
1	110	Remove Existing Floor	14.50
2	120	Clean mold	0.00
3	130	Install sub-floor	52.75
4	140	Design mosaic/glass	32.65
5	150	Prepare sub floor	95.50
6	160	Install tile floor	261.80
7	170	Grout	135.50
8	180	Seal and finish work	88.75
9	190	Install mosaic	0.00
10	200	Build structure	0.00
11	210	Remove existing tile	0.00
12	220	Clean site	0.00
13	230	Install tile counter	16.50
14	240	Install tile wall	0.00
15	260	Build mosaic/glass	35.50
16	270	General demolition	7.50

15. Another new query (important for HW6). Eventually, we want to be able to compare the actual number of hours worked and the actual cost of those hours to the estimated hours and estimated labor cost. However, this data is spread over a number of related tables in the database, making it necessary to join data and use sub-queries. Right now, all we want to do is figure out the actual hours worked and the actual cost of those hours for every row in the TimeSheet table where the jobID is NOT NULL. Sort the result table by EmpID.

The hourly pay rate for an employee is stored in the EmployeePay table, and that payrate can change over time, so we need to determine the correct pay rate for HoursWorked based on the date that work was performed in the TimeSheet table and the time in the EmployeePay table. I recommend that you look back at HW#4, question #10 to remember how to locate the correct HourlyPayRate for a given period of time for a given employee. There should be 199 rows in the result table, so I have broken it up into multiple snips but included all rows for your reference. You do not have to include all rows on your output. As shown and sorted below, I'd like to see rows 1-5, 125-135, 180-184 on your output so that I can verify your results.

	EmpID	EmployeeName	TaskID	JobID	StartWork	HoursWorked	HourlyPay	LaborCost
1	2300	Riggs, Evelyn	130	55841	2013-07-15 08:00:00.000	3.50	12.00	42.000000
2	2300	Riggs, Evelyn	130	55841	2013-07-15 13:30:00.000	4.00	12.00	48.000000
3	2300	Riggs, Evelyn	150	55841	2013-07-16 08:30:00.000	4.00	12.00	48.000000
4	2300	Riggs, Evelyn	170	55841	2013-07-22 08:00:00.000	4.00	12.00	48.000000
5	2300	Riggs, Evelyn	130	55878	2013-09-12 08:00:00.000	4.00	12.00	48.000000
6	2300	Riggs, Evelyn	150	55878	2013-09-13 13:00:00.000	4.50	12.00	54.000000
7	2300	Riggs, Evelyn	170	55878	2013-09-25 07:30:00.000	4.00	12.00	48.000000
8	2300	Riggs, Evelyn	180	55878	2013-09-29 12:00:00.000	5.00	12.00	60.000000
9	2300	Riggs, Evelyn	170	91584	2014-04-14 08:30:00.000	3.75	12.00	45.000000
10	2300	Riggs, Evelyn	170	91584	2014-04-14 14:00:00.000	2.00	12.00	24.000000
11	2300	Riggs, Evelyn	170	91584	2014-04-15 09:00:00.000	3.00	12.00	36.000000
12	2300	Riggs, Evelyn	170	91584	2014-04-15 13:00:00.000	2.50	12.00	30.000000
13	2300	Riggs, Evelyn	180	91584	2014-04-22 12:45:00.000	3.75	12.00	45.000000
14	2300	Riggs, Evelyn	150	32687	2014-08-08 13:00:00.000	4.50	12.00	54.000000
15	2300	Riggs, Evelyn	170	32687	2014-08-15 08:00:00.000	4.00	12.00	48.000000
16	2300	Riggs, Evelyn	170	32687	2014-08-15 13:00:00.000	2.50	12.00	30.000000
17	2300	Riggs, Evelyn	170	62254	2014-10-24 08:00:00.000	4.00	12.00	48.000000
18	2300	Riggs, Evelyn	170	62254	2014-10-24 13:00:00.000	4.00	12.00	48.000000
19	2300	Riggs, Evelyn	170	62254	2014-10-27 08:00:00.000	3.00	12.00	36.000000
20	2300	Riggs, Evelyn	170	62254	2014-10-27 13:00:00.000	2.50	12.00	30.000000

21	2300	Riggs, Evelyn	130	16885	2014-12-15 08:00:00.000	4.00	12.00	48.000000
22	2300	Riggs, Evelyn	130	16885	2014-12-15 13:00:00.000	4.00	12.00	48.000000
23	2300	Riggs, Evelyn	130	16885	2014-12-16 08:15:00.000	3.75	12.00	45.000000
24	2300	Riggs, Evelyn	150	16885	2014-12-16 12:30:00.000	4.50	12.00	54.000000
25	2480	Hazelton, Blake	170	55841	2013-07-22 08:00:00.000	4.00	14.00	56.000000
26	2480	Hazelton, Blake	170	55841	2013-07-22 13:00:00.000	2.50	14.00	35.000000
27	2480	Hazelton, Blake	150	55873	2013-08-16 09:00:00.000	3.00	14.00	42.000000
28	2480	Hazelton, Blake	150	55873	2013-08-16 13:00:00.000	1.25	14.00	17.500000
29	2480	Hazelton, Blake	170	55873	2013-08-26 07:30:00.000	4.00	14.00	56.000000
30	2480	Hazelton, Blake	170	55873	2013-08-26 14:00:00.000	3.00	14.00	42.000000
31	2480	Hazelton, Blake	180	55873	2013-09-02 08:15:00.000	5.00	14.00	70.000000
32	2480	Hazelton, Blake	130	55878	2013-09-12 08:00:00.000	4.00	14.00	56.000000
33	2480	Hazelton, Blake	170	55878	2013-09-25 08:00:00.000	3.50	14.00	49.000000
34	2480	Hazelton, Blake	170	55878	2013-09-25 14:00:00.000	2.25	14.00	31.500000
35	2480	Hazelton, Blake	150	91584	2014-03-31 08:30:00.000	3.50	14.00	49.000000
36	2480	Hazelton, Blake	150	91584	2014-03-31 13:00:00.000	4.00	14.00	56.000000
37	2480	Hazelton, Blake	150	91584	2014-04-01 08:00:00.000	4.00	14.00	56.000000
38	2480	Hazelton, Blake	150	91584	2014-04-01 13:00:00.000	4.00	14.00	56.000000
39	2480	Hazelton, Blake	150	91584	2014-04-02 08:30:00.000	3.00	14.00	42.000000
40	2480	Hazelton, Blake	180	32687	2014-08-21 08:30:00.000	4.50	14.00	63.000000
41	2480	Hazelton, Blake	150	62254	2014-10-14 09:00:00.000	3.50	14.00	49.000000
42	2480	Hazelton, Blake	150	62254	2014-10-14 13:00:00.000	4.00	14.00	56.000000
43	2480	Hazelton, Blake	150	62254	2014-10-15 08:00:00.000	4.00	14.00	56.000000
44	2480	Hazelton, Blake	150	62254	2014-10-15 13:00:00.000	4.00	14.00	56.000000
45	2480	Hazelton, Blake	150	62254	2014-10-16 08:00:00.000	4.00	14.00	56.000000
46	2480	Hazelton, Blake	170	62257	2014-11-10 13:00:00.000	4.00	14.00	56.000000
47	2480	Hazelton, Blake	170	62257	2014-11-11 08:00:00.000	4.00	14.00	56.000000
48	2480	Hazelton, Blake	170	62257	2014-11-12 08:00:00.000	2.50	14.00	35.000000
49	2480	Hazelton, Blake	170	62257	2014-11-12 13:00:00.000	1.00	14.00	14.000000
50	3155	Allen, Noel	170	55873	2013-08-26 08:00:00.000	3.50	10.25	35.875000

51	3155	Allen, Noel	150	91584	2014-03-31 08:30:00.000	3.50	10.75	37.625000
52	3155	Allen, Noel	150	91584	2014-03-31 13:00:00.000	4.00	10.75	43.000000
53	3155	Allen, Noel	150	91584	2014-04-01 08:00:00.000	4.00	10.75	43.000000
54	3155	Allen, Noel	150	91584	2014-04-01 13:00:00.000	4.00	10.75	43.000000
55	3155	Allen, Noel	180	62254	2014-10-30 12:30:00.000	4.25	10.75	45.687500
56	3155	Allen, Noel	180	62254	2014-10-31 08:00:00.000	4.00	10.75	43.000000
57	3155	Allen, Noel	180	62254	2014-10-31 13:00:00.000	4.00	10.75	43.000000
58	3155	Allen, Noel	180	62254	2014-11-03 13:00:00.000	4.00	10.75	43.000000
59	3155	Allen, Noel	180	62257	2014-11-13 13:00:00.000	4.00	10.75	43.000000
60	3155	Allen, Noel	180	62257	2014-11-14 08:00:00.000	4.00	10.75	43.000000
61	3155	Allen, Noel	180	62257	2014-11-14 13:00:00.000	3.75	10.75	40.312500
62	3155	Allen, Noel	180	62257	2014-11-18 08:30:00.000	3.50	10.75	37.625000
63	3155	Allen, Noel	270	16885	2014-12-09 13:00:00.000	3.75	10.75	40.312500
64	4702	Walker, Vanc...	130	55873	2013-08-15 12:30:00.000	5.75	23.00	132.250...
65	4702	Walker, Vanc...	180	62254	2014-10-29 13:00:00.000	1.75	23.00	40.250000
66	4702	Walker, Vanc...	180	62254	2014-10-30 11:45:00.000	3.00	23.00	69.000000
67	4702	Walker, Vanc...	180	62254	2014-11-04 10:00:00.000	4.00	23.00	92.000000
68	4702	Walker, Vanc...	180	62257	2014-11-13 13:50:00.000	3.50	23.00	80.500000
69	4702	Walker, Vanc...	180	62257	2014-11-17 10:00:00.000	4.00	23.00	92.000000
70	5291	Kinney, Dene...	160	55841	2013-07-18 10:00:00.000	2.00	16.00	32.000000
71	5291	Kinney, Dene...	160	55841	2013-07-18 13:00:00.000	4.00	16.00	64.000000
72	5291	Kinney, Dene...	160	55841	2013-07-19 07:30:00.000	4.50	16.00	72.000000
73	5291	Kinney, Dene...	160	55873	2013-08-19 08:10:00.000	4.30	16.00	68.800000
74	5291	Kinney, Dene...	160	55873	2013-08-19 13:30:00.000	3.50	16.00	56.000000
75	5291	Kinney, Dene...	160	55873	2013-08-20 08:00:00.000	3.50	16.00	56.000000
76	5291	Kinney, Dene...	160	91584	2014-04-07 08:00:00.000	4.00	16.00	64.000000
77	5291	Kinney, Dene...	160	91584	2014-04-07 13:00:00.000	4.00	16.00	64.000000
78	5291	Kinney, Dene...	160	91584	2014-04-08 08:30:00.000	3.75	16.00	60.000000
79	5291	Kinney, Dene...	160	91584	2014-04-08 13:00:00.000	5.00	16.00	80.000000
80	5291	Kinney, Dene...	160	91584	2014-04-09 08:00:00.000	4.00	16.00	64.000000

81	5291	Kinney, Dene...	160	91584	2014-04-09 13:00:00.000	4.00	16.00	64.000000
82	5291	Kinney, Dene...	160	91584	2014-04-10 08:00:00.000	4.00	16.00	64.000000
83	5291	Kinney, Dene...	160	91584	2014-04-10 13:00:00.000	4.00	16.00	64.000000
84	5291	Kinney, Dene...	160	91584	2014-04-11 08:00:00.000	4.00	16.00	64.000000
85	5291	Kinney, Dene...	160	91584	2014-04-11 13:00:00.000	3.00	16.00	48.000000
86	5291	Kinney, Dene...	160	62254	2014-10-16 08:00:00.000	4.25	16.00	68.000000
87	5291	Kinney, Dene...	160	62254	2014-10-16 13:00:00.000	4.00	16.00	64.000000
88	5291	Kinney, Dene...	160	62254	2014-10-17 08:00:00.000	4.00	16.00	64.000000
89	5291	Kinney, Dene...	160	62254	2014-10-17 13:00:00.000	4.00	16.00	64.000000
90	5291	Kinney, Dene...	160	62254	2014-10-20 08:00:00.000	4.00	16.00	64.000000
91	5291	Kinney, Dene...	160	62254	2014-10-20 13:00:00.000	4.00	16.00	64.000000
92	5291	Kinney, Dene...	160	62254	2014-10-21 14:30:00.000	1.50	16.00	24.000000
93	5291	Kinney, Dene...	160	62254	2014-10-22 08:00:00.000	4.00	16.00	64.000000
94	5291	Kinney, Dene...	160	62257	2014-11-03 08:00:00.000	4.50	16.00	72.000000
95	5291	Kinney, Dene...	160	62257	2014-11-03 13:00:00.000	4.00	16.00	64.000000
96	5291	Kinney, Dene...	160	62257	2014-11-04 08:00:00.000	4.00	16.00	64.000000
97	5291	Kinney, Dene...	160	62257	2014-11-04 13:00:00.000	4.00	16.00	64.000000
98	5291	Kinney, Dene...	160	62257	2014-11-05 08:00:00.000	4.00	16.00	64.000000
99	5291	Kinney, Dene...	160	62257	2014-11-05 13:00:00.000	4.00	16.00	64.000000
100	5291	Kinney, Dene...	160	62257	2014-11-06 08:00:00.000	4.00	16.00	64.000000
101	5291	Kinney, Dene...	160	62257	2014-11-06 13:00:00.000	3.50	16.00	56.000000
102	5862	Bridges, Carol	160	55878	2013-09-20 13:30:00.000	3.75	16.00	60.000000
103	5862	Bridges, Carol	160	55878	2013-09-21 08:30:00.000	7.00	16.00	112.000...
104	5862	Bridges, Carol	230	91584	2014-04-03 08:00:00.000	4.00	16.00	64.000000
105	5862	Bridges, Carol	230	91584	2014-04-03 13:00:00.000	4.00	16.00	64.000000
106	5862	Bridges, Carol	230	91584	2014-04-04 08:00:00.000	4.00	16.00	64.000000
107	5862	Bridges, Carol	230	91584	2014-04-04 13:00:00.000	4.50	16.00	72.000000
108	5862	Bridges, Carol	160	91584	2014-04-07 08:00:00.000	4.00	16.00	64.000000
109	5862	Bridges, Carol	160	91584	2014-04-07 13:00:00.000	4.00	16.00	64.000000
110	5862	Bridges, Carol	160	91584	2014-04-08 08:00:00.000	4.00	16.00	64.000000

111	5862	Bridges, Carol	160	91584	2014-04-09 08:00:00.000	4.00	16.00	64.000000
112	5862	Bridges, Carol	160	91584	2014-04-09 13:00:00.000	4.00	16.00	64.000000
113	5862	Bridges, Carol	160	91584	2014-04-10 08:00:00.000	4.00	16.00	64.000000
114	5862	Bridges, Carol	160	91584	2014-04-10 13:00:00.000	4.00	16.00	64.000000
115	5862	Bridges, Carol	160	91584	2014-04-11 08:00:00.000	4.00	16.00	64.000000
116	5862	Bridges, Carol	160	91584	2014-04-11 13:00:00.000	2.50	16.00	40.000000
117	5862	Bridges, Carol	160	32687	2014-08-11 08:00:00.000	4.00	16.00	64.000000
118	5862	Bridges, Carol	160	32687	2014-08-11 09:00:00.000	2.00	16.00	32.000000
119	5862	Bridges, Carol	160	32687	2014-08-11 13:00:00.000	4.00	16.00	64.000000
120	5862	Bridges, Carol	160	62254	2014-10-16 08:00:00.000	3.00	16.00	48.000000
121	5862	Bridges, Carol	160	62254	2014-10-16 13:00:00.000	4.00	16.00	64.000000
122	5862	Bridges, Carol	160	62254	2014-10-17 08:00:00.000	4.00	16.00	64.000000
123	5862	Bridges, Carol	160	62254	2014-10-17 13:00:00.000	4.50	16.00	72.000000
124	5862	Bridges, Carol	160	62254	2014-10-20 08:00:00.000	4.00	16.00	64.000000
125	5862	Bridges, Carol	160	62254	2014-10-20 13:00:00.000	4.00	16.00	64.000000
126	5862	Bridges, Carol	160	62254	2014-10-21 08:00:00.000	4.00	16.00	64.000000
127	5862	Bridges, Carol	160	62254	2014-10-21 14:30:00.000	4.00	16.00	64.000000
128	5862	Bridges, Carol	160	62257	2014-11-03 08:00:00.000	4.50	16.00	72.000000
129	5862	Bridges, Carol	160	62257	2014-11-03 13:00:00.000	4.00	16.00	64.000000
130	5862	Bridges, Carol	160	62257	2014-11-04 08:00:00.000	4.00	16.00	64.000000
131	5862	Bridges, Carol	160	62257	2014-11-04 13:00:00.000	4.00	16.00	64.000000
132	5862	Bridges, Carol	160	62257	2014-11-05 08:00:00.000	4.00	16.72	66.880000
133	5862	Bridges, Carol	160	62257	2014-11-05 13:00:00.000	4.00	16.72	66.880000
134	5862	Bridges, Carol	160	62257	2014-11-06 08:00:00.000	4.00	16.72	66.880000
135	5862	Bridges, Carol	160	62257	2014-11-06 13:00:00.000	4.00	16.72	66.880000
136	6460	Kane, Sylvia	140	78431	2014-11-19 10:00:00.000	2.50	27.50	68.750000
137	6460	Kane, Sylvia	140	78431	2014-11-19 14:00:00.000	3.00	27.50	82.500000
138	6460	Kane, Sylvia	140	78431	2014-11-20 09:00:00.000	3.50	27.50	96.250000
139	6460	Kane, Sylvia	140	78431	2014-11-20 13:30:00.000	4.15	27.50	114.125...
140	6460	Kane, Sylvia	140	78431	2014-11-24 12:00:00.000	1.50	27.50	41.250000

141	6460	Kane, Sylvia	140	78431	2014-11-26 08:00:00.000	4.00	27.50	110.000...
142	6460	Kane, Sylvia	140	78431	2014-11-26 13:15:00.000	3.00	27.50	82.500000
143	6460	Kane, Sylvia	140	78431	2014-11-27 14:00:00.000	2.00	27.50	55.000000
144	6460	Kane, Sylvia	140	16885	2014-12-01 10:00:00.000	1.50	27.50	41.250000
145	6460	Kane, Sylvia	140	16885	2014-12-03 10:30:00.000	6.00	27.50	165.000...
146	6460	Kane, Sylvia	140	16885	2014-12-05 16:30:00.000	1.00	27.50	27.500000
147	6460	Kane, Sylvia	140	16885	2014-12-08 12:00:00.000	0.50	27.50	13.750000
148	6460	Kane, Sylvia	260	78431	2014-12-18 12:30:00.000	4.00	27.50	110.000...
149	6460	Kane, Sylvia	260	78431	2014-12-22 08:00:00.000	4.00	27.50	110.000...
150	6460	Kane, Sylvia	260	78431	2014-12-22 13:30:00.000	4.00	27.50	110.000...
151	6460	Kane, Sylvia	260	78431	2014-12-23 11:00:00.000	6.00	27.50	165.000...
152	6460	Kane, Sylvia	260	78431	2014-12-29 13:00:00.000	4.50	27.50	123.750...
153	6460	Kane, Sylvia	260	78431	2014-12-30 08:00:00.000	3.50	27.50	96.250000
154	6460	Kane, Sylvia	260	78431	2015-01-02 09:30:00.000	2.50	27.50	68.750000
155	6460	Kane, Sylvia	260	78431	2015-01-02 13:45:00.000	3.00	27.50	82.500000
156	6460	Kane, Sylvia	260	78431	2015-01-08 08:00:00.000	4.00	27.50	110.000...
157	7656	Wiggins, Cody	180	55841	2013-07-29 13:15:00.000	4.00	11.50	46.000000
158	7656	Wiggins, Cody	170	91584	2014-04-15 08:00:00.000	4.00	11.50	46.000000
159	7656	Wiggins, Cody	170	91584	2014-04-15 13:00:00.000	3.50	11.50	40.250000
160	7656	Wiggins, Cody	180	91584	2014-04-22 12:45:00.000	3.75	11.50	43.125000
161	7656	Wiggins, Cody	130	32687	2014-08-04 08:00:00.000	4.00	11.50	46.000000
162	7656	Wiggins, Cody	130	32687	2014-08-04 13:00:00.000	4.00	11.50	46.000000
163	7656	Wiggins, Cody	170	62254	2014-10-22 14:00:00.000	3.00	11.50	34.500000
164	7656	Wiggins, Cody	170	62254	2014-10-23 08:00:00.000	4.00	11.50	46.000000
165	7656	Wiggins, Cody	170	62254	2014-10-23 13:00:00.000	4.00	11.50	46.000000
166	7656	Wiggins, Cody	170	62254	2014-10-24 08:00:00.000	4.00	11.50	46.000000
167	7656	Wiggins, Cody	170	62254	2014-10-24 13:50:00.000	4.00	11.50	46.000000
168	7656	Wiggins, Cody	150	62257	2014-10-30 08:00:00.000	4.00	11.50	46.000000
169	7656	Wiggins, Cody	150	62257	2014-10-30 13:00:00.000	4.00	11.50	46.000000
170	7656	Wiggins, Cody	150	62257	2014-10-31 08:00:00.000	4.00	11.50	46.000000

171	7656	Wiggins, Cody	150	62257	2014-10-31 13:00:00.000	4.00	11.50	46.000000
172	7656	Wiggins, Cody	150	62257	2014-11-03 08:00:00.000	4.25	11.50	48.875000
173	7656	Wiggins, Cody	170	62257	2014-11-11 08:00:00.000	4.00	11.50	46.000000
174	7656	Wiggins, Cody	170	62257	2014-11-11 13:00:00.000	3.00	11.50	34.500000
175	7656	Wiggins, Cody	130	16885	2014-12-15 08:00:00.000	4.00	11.50	46.000000
176	7656	Wiggins, Cody	130	16885	2014-12-15 13:00:00.000	4.00	11.50	46.000000
177	7656	Wiggins, Cody	130	16885	2014-12-16 08:15:00.000	3.75	11.50	43.125000
178	7656	Wiggins, Cody	160	16885	2014-12-17 08:00:00.000	4.00	11.50	46.000000
179	7656	Wiggins, Cody	160	16885	2014-12-17 13:00:00.000	4.00	11.50	46.000000
180	7656	Wiggins, Cody	160	16885	2014-12-18 08:00:00.000	4.00	11.50	46.000000
181	7656	Wiggins, Cody	160	16885	2014-12-18 13:00:00.000	4.00	11.50	46.000000
182	7656	Wiggins, Cody	160	16885	2014-12-19 08:00:00.000	3.25	12.15	39.487500
183	8110	Burgess, Dar...	110	32687	2014-08-01 08:00:00.000	4.00	11.00	44.000000
184	8110	Burgess, Dar...	110	32687	2014-08-01 13:00:00.000	3.50	11.00	38.500000
185	8110	Burgess, Dar...	180	62254	2014-11-03 08:00:00.000	4.00	11.00	44.000000
186	8110	Burgess, Dar...	180	62254	2014-11-03 13:00:00.000	3.00	11.00	33.000000
187	8110	Burgess, Dar...	180	62257	2014-11-17 13:15:00.000	4.00	11.00	44.000000
188	8110	Burgess, Dar...	180	62257	2014-11-18 08:00:00.000	4.00	11.00	44.000000
189	8110	Burgess, Dar...	270	16885	2014-12-09 13:00:00.000	3.75	11.00	41.250000
190	8110	Burgess, Dar...	110	16885	2014-12-11 08:30:00.000	4.00	11.00	44.000000
191	8110	Burgess, Dar...	110	16885	2014-12-11 13:00:00.000	3.00	11.00	33.000000
192	8750	Fleming, Cath...	170	62254	2014-10-23 07:00:00.000	4.00	14.00	56.000000
193	8750	Fleming, Cath...	170	62254	2014-10-23 13:00:00.000	4.00	14.00	56.000000
194	8750	Fleming, Cath...	170	62257	2014-11-09 08:45:00.000	3.00	14.00	42.000000
195	8750	Fleming, Cath...	170	62257	2014-11-09 13:00:00.000	4.00	14.00	56.000000
196	8750	Fleming, Cath...	170	62257	2014-11-10 08:00:00.000	4.00	14.00	56.000000
197	8750	Fleming, Cath...	170	62257	2014-11-11 13:00:00.000	4.00	14.00	56.000000
198	8750	Fleming, Cath...	170	62257	2014-11-12 08:00:00.000	4.00	14.00	56.000000
199	8750	Fleming, Cath...	170	62257	2014-11-12 13:00:00.000	1.50	14.00	21.000000