
DATABASE I - ASSIGNMENT 3

Summer 2023

Author

Name: Alessandro Santos de Lima

Student ID: 300340437

Contents

1	Justifications on Part A	3
1.1	A.a	3
1.2	A.b	3
1.3	A.c	3

1 Justifications on Part A

1.1 A.a

Write an SQL statement to show the LastName, FirstName, and CellPhone for the employees who have worked on a property in Redmond. Remove duplicate rows in the result.

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

Figure 1: A.a - Workers who have worked on a property in Redmond.

1.2 A.b

Write an SQL statement to show the LastName, FirstName, CellPhone, and total hours worked for each employee who has worked on at least one property and sort the result by the total hours worked in the ascending order. Give an appropriate column name to the computed results.

	EmployeeID	ABC LastName	ABC FirstName	ABC CellPhone	HoursWorked
1	3	Murray	Dale	206-254-3456	4.5
2	5	Fontaine	Joan	206-254-4567	5
3	2	Evanston	John	206-254-2345	9.25
4	1	Smith	Sam	206-254-1234	10.5
5	4	Murphy	Jerry	585-545-8765	23.5

Figure 2: A.b - Total hours worked in ascendir order.

1.3 A.c

Write SQL statements to delete the employee with the cellphone number 206-254-1234. Assume that ON DELETE NO ACTION is used in the PROPERTY_SERVICE table for the foreign key EmployeeID, so you need to delete the related rows in the PROPERTY_SERVICE table first. Use BEGIN TRAN and ROLLBACK properly.

Name	Value
Updated Rows	3
Query	BEGIN TRAN; DELETE FROM PROPERTY_SERVICE WHERE EmployeeID IN (SELECT EmployeeID FROM EMPLOYEE WHERE CellPhone = '206-254-1234') DELETE FROM EMPLOYEE WHERE CellPhone = '206-254-1234' ROLLBACK;
Start time	Fri Jul 21 10:36:54 PDT 2023
Finish time	Fri Jul 21 10:36:54 PDT 2023

Figure 3: A.c - Deletion of employee with cellphone number 206-254-1234.