

Durham College DATA1202: Data Analysis Tools

Assignment#2 (Data Transformation)

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Due Date: 20 Oct 2021

Part-A (10 points) : SQL Queries

Question 1:

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes Open Project Save Project Attach Database Close Database

Database Structure Browse Data Edit Pragmas Execute SQL

SQL 1

```
1 SELECT e.EMPLOYEE_ID, e.FIRST_NAME || ' ' || e.LAST_NAME AS Name, SUM(b.BONUS_AMOUNT) AS Total_Bonus
2 FROM Bonus b
3 LEFT JOIN Employee e
4 ON e.EMPLOYEE_ID = b.EMPLOYEE_REF_ID
5 GROUP BY e.EMPLOYEE_ID;
6
7
```

	EMPLOYEE_ID	Name	Total_Bonus
1	1	James Smith	9500
2	2	Jessica Kohl	6500
3	3	Alex Garner	4000

Execution finished without errors.
Result: 3 rows returned in 17ms
At line 1:
SELECT e.EMPLOYEE_ID, e.FIRST_NAME || ' ' || e.LAST_NAME AS Name, SUM(b.BONUS_AMOUNT) AS Total_Bonus
FROM Bonus b
LEFT JOIN Employee e
ON e.EMPLOYEE_ID = b.EMPLOYEE_REF_ID
GROUP BY e.EMPLOYEE_ID;

Question 2:

Database Structure

Browse Data

Edit Pragmas

Execute SQL

SQL 1

```
1 SELECT s.name, COUNT(o.salesperson_id) AS "Number of orders"
2 FROM salesperson s
3 LEFT JOIN orders o
4 ON s.ID = o.salesperson_id
5 GROUP BY o.salesperson_id
6 HAVING COUNT(o.salesperson_id) >= 2
7 ORDER BY "Number of orders" DESC;
8
9
```

	name	Number of orders
1	Dan	3
2	Bob	2

Execution finished without errors.

Result: 2 rows returned in 16ms

At line 1:

SELECT s.name, COUNT(o.salesperson_id) AS "Number of orders"

FROM salesperson s

LEFT JOIN orders o

ON s.ID = o.salesperson_id

GROUP BY o.salesperson_id

HAVING COUNT(o.salesperson_id) >= 2

ORDER BY "Number of orders" DESC;

Question 3:

New DatabaseOpen DatabaseWrite ChangesRevert ChangesOpen ProjectSave ProjectAttach DatabaseClose Database

Database StructureBrowse DataEdit PragmasExecute SQL

SQL 1

```
1 SELECT COUNT(*)*100/(SELECT COUNT(*) FROM attendance_events) AS Percent FROM all_students s
2 LEFT JOIN attendance_events e ON s.student_id = e.student_id
3 WHERE (strftime('%m %d', s.date_of_birth) = strftime('%m %d', e.date_event) AND e.attendance = "present") ;
4
5
6
7
```

	Percent
1	22

Execution finished without errors.
Result: 1 rows returned in 7ms
At line 1:
SELECT COUNT(*)*100/(SELECT COUNT(*) FROM attendance_events) AS Percent FROM all_students s
LEFT JOIN attendance_events e ON s.student_id = e.student_id
WHERE (strftime('%m %d', s.date_of_birth) = strftime('%m %d', e.date_event) AND e.attendance = "present") ;