

Homework #2 Quiz

- The total mark for this quiz is 100.
- This homework quiz accounts for 5% of the total marks for this course.
- Your answer sheet is due by the end of the session and should be submitted via Moodle to the designate link corresponding to your tutorial session. Please submit your answer sheet only (not including the quiz paper).
- Please refer to the document “Format for Answering an SQL Question” to prepare your answer for Q3.
- Please save your answer sheet as a pdf file for submission. (If you submit a word document, Moodle will convert it to a pdf file; sometimes some content may be distorted.)
- You do not need to upload your SAS file for Q3.
- You may use SAS Enhancement features in your query for Q3.

Question 1 (25%)

Assume the following two tables are in the ORION database.

Table_1

E_ID	DEPT	Gender	T_Date	...
...				

Table_2

E_ID	S_ID	...
...		

Please find and list all syntax errors in the following query. Your result should be like the following:

1. Syntax error 1
2. Syntax error 2
- :
- n. Syntax error n

Note: your marks will be deducted if your listed error is not an error.

```
Proc sql;
Title ``title content";

Select e.e_ID, e.gender, e.DEPT, a. s_ID
From Table_1 'e'
inner join orion.Table_2 a
Where a.e_ID=e.e_ID
Order by e.DEPT, desc e.e_ID;

quit;
```

Question 2 (35%)

Consider the following three tables in your working folder.

Table name: OStaff

Staff_ID	First_Name	Last_Name
5	Mary	Lau
6	Jessica	Moon

Table name: OTransaction

Transaction_ID	Product_ID	Quantity
5	2	15
7	4	10
8	7	5

Table name: Oproduct

Product_ID	Product_Type	Product_name	Price
2	Pastry	Cake	10
4	Pastry	Bread	9
6	Fruit	Mongo	8
7	Drink	Coffee	20

Answer the following two subquestions:

- (a) (5 marks) State what the following query intends to achieve.
- (b) (30 marks) Without using SAS EG, show the result table of the following query.

```
proc sql number;
```

```
select first name, product name,  
       t.quantity*p.price round (vstund s.staff_ID)  
'Attributed Sale' format=dollar4.1
```

```
from OPRODUCT as p
```

```
inner join otransaction as t
```

```
on p.product_ID=t.product_ID, orion.ostaff s
```

```
order by 2,1;
```

```
quit;
```

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Question 3 (40%)

This question pertains to Orion Star and the data files customer, customer_type, and order_fact given to you in your lab session. (Note that there are two files: customers and customer. You should use customer in your query.)

Write a query to list the total purchase of all customers who have low activity (see the customer_type column in customer_type table) and use **find function** in the where clause. Your result table will look like:

Customer ID	Customer Type	Total Purchase
12322	Orion club members high activity	\$52,353.00
...		

Sort your result by customer type and total purchase columns in descending order. Follow the instruction to display your result table. Display only the first and the last 10 rows of your result if the table has more than 20 rows.

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