

Lab Exam 2 – advance information

Lab exam 2 is worth 25% of your final mark.

The exam lasts 90 minutes. It consists of writing 11 SQL queries for a table in the public schema, executing them and entering the results in a Moodle quiz. You can have two attempts; after the first attempt you will be told which questions have incorrect results.

You MUST complete the exam during your regular CS130 Lab session (i.e. 2–4pm Monday or 9–11am Wednesday or 3–5pm Thursday). The data and questions will only become available and are different for each session. The data will be in a table with the following columns:

```
TillID VARCHAR(50) PRIMARY KEY NOT NULL,  
entrytime TIMESTAMP NOT NULL,  
exittime TIMESTAMP NOT NULL,  
loyaltycard VARCHAR(50) NOT NULL,  
items DECIMAL(10,2) NOT NULL,  
usedDebit VARCHAR(3) NOT NULL,  
CustName VARCHAR(50) NOT NULL
```

The table describes a large number of visits to the CS130 Supermarket in Maynooth. The moment a customer enters the supermarket shop their entry time is recorded. Upon leaving the shop their exit time is recorded. The tillid attribute is the identification number of the transaction at the till when the customer purchases items. The number of items purchased is indicated in the items attribute. If the customer used a debit card then the attribute useddebit is set to yes. Otherwise it is no. The full customer name is indicated in custname. Finally, the loyaltycard attribute indicates the number of the customer loyalty card. Every customer has a loyalty card. The shop is open continuously on a 24–7 basis on 365 days of the year.

The queries you have to write are similar to those in labs 2 to 5. Sample solutions to those labs are now available on Moodle.

You can prepare for the exam by reviewing the following SQL constructs/operators

```
SELECT  
FROM  
WHERE  
GROUP BY  
ORDER BY  
ASC  
DESC  
COUNT  
LIKE  
%  
extract( )  
dow  
doy  
~  
~*
```

Pattern Matching in strings:

```
^  
$  
.  
{ 1,}  
{ 1,9}  
{,8}  
*  
|  
\s
```

NB: Lab exam 2 will NOT include writing joins, having, limit, constraints or create statements.

? CS130 Lab Exam 2 Pluto

Opened: Thursday, 25 November 2021, 3:00 PM
Closed: Thursday, 25 November 2021, 5:00 PM

Attempts allowed: 2

To attempt this quiz you need to know the quiz password

Time limit: 1 hour 30 mins

Grading method: Highest grade

Summary of your previous attempts

Attempt	State	Grade / 11.00	Review
1	Finished Submitted Thursday, 25 November 2021, 4:36 PM	9.00	Not permitted
2	Finished Submitted Thursday, 25 November 2021, 4:51 PM	10.00	Not permitted

Your final grade for this quiz is 10.00/11.00.

No more attempts are allowed

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