

MySQL Assignment

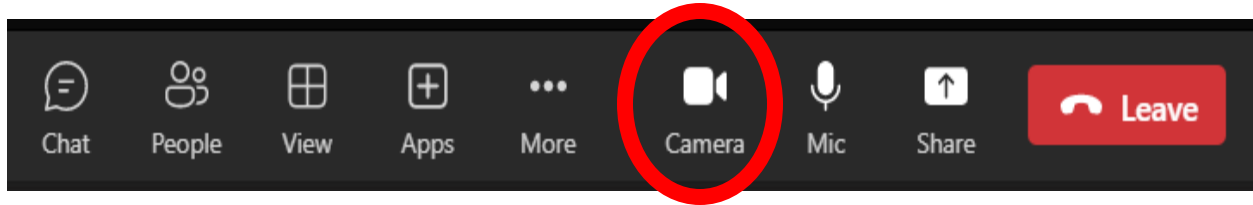
A photograph of three people in an office environment. A woman with curly hair is leaning over a desk, looking at a tablet held by another woman. The woman holding the tablet is wearing glasses and a blue shirt. A man with a beard is partially visible on the right, also looking at the tablet. In the background, a computer monitor displays some code or data. The scene is brightly lit, suggesting a modern office.

Camera Expectations



Before we start... Please have your camera switched on.

Camera Expectations



This is a mandatory requirement for the duration of the course.



You are studying a [regulated qualification](#), your tutor needs to see that it is the right person participating throughout the course.

Our job is [to prepare you for work](#) in an age where in almost any job there is likely to be at least some aspect of remote engagement with your employer.

Online learning is to be [treated the same way as a classroom learning](#), you must be physically visible to interact with your tutor and other learners in order to create an engaging group dynamic.

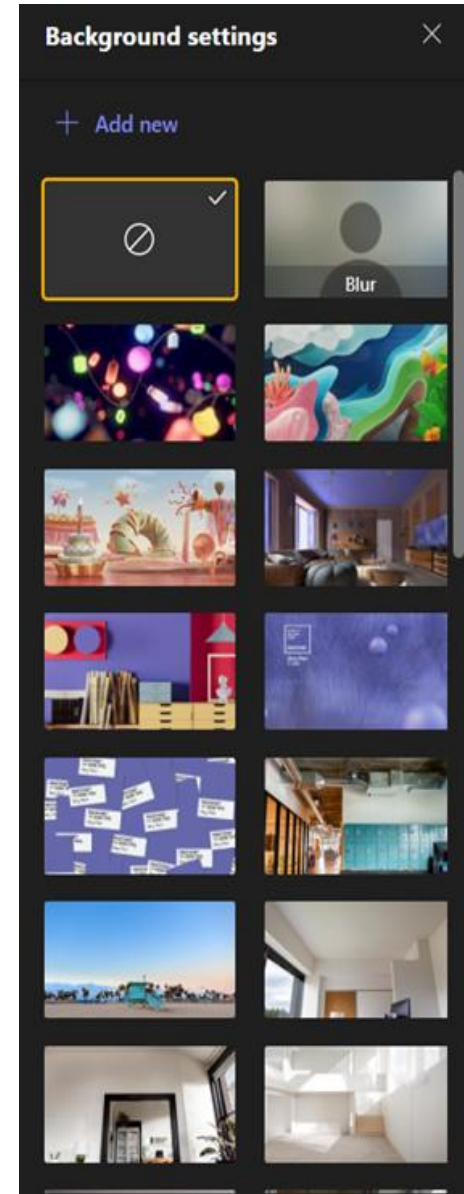
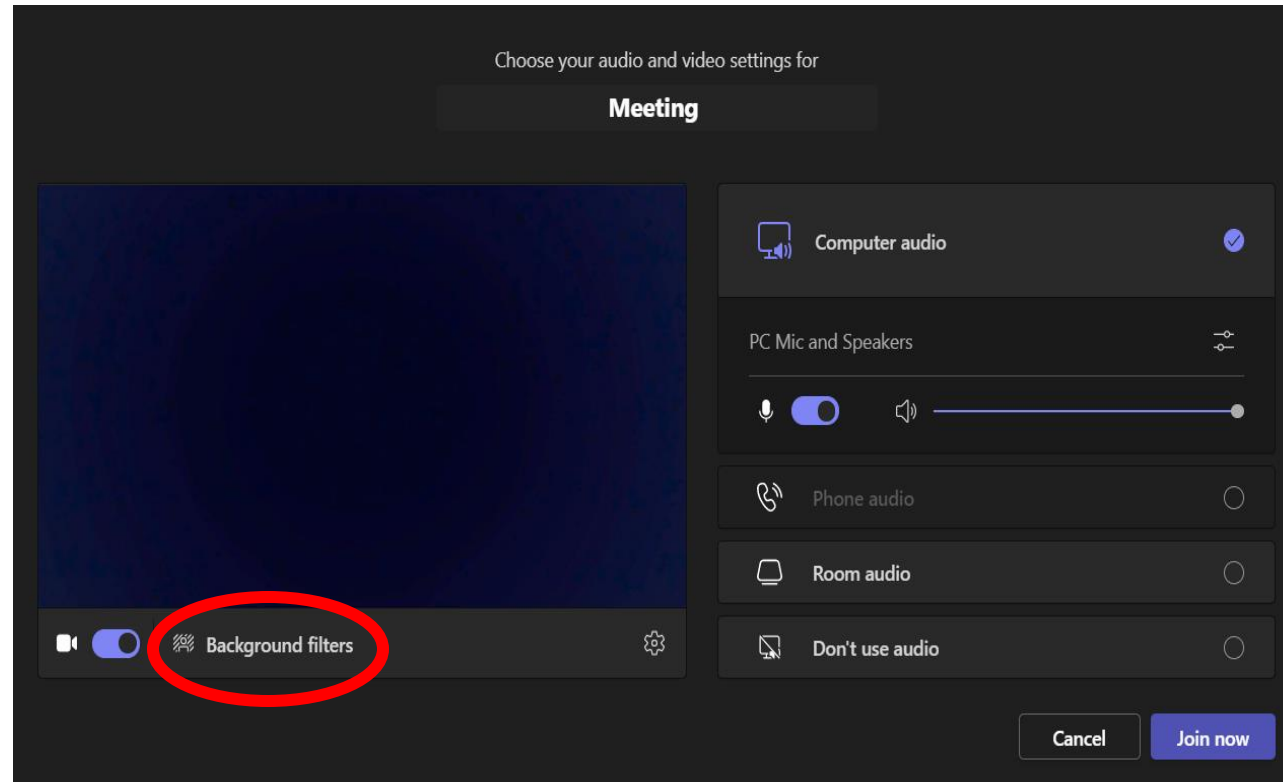
Background filters

If you do not wish to have your camera displaying your personal environment, Microsoft Teams has a solution to this problem...

Step One: Before you join a Teams video call, click the 'Background Filters' option.

Step Two: On the right-hand side, you can select any of the stock images.

Step Three: The image you choose will then appear in your background on the video call.



If you need any further support in regards to this requirement, please speak to your tutor directly.

Areas of focus

- Working as a team.
- Improving problem solving skills.
- Collaboration.
- MySQL syntax and query writing.
- Filtering and sorting in MySQL
- Working on schemas
- Understanding PK and FK.
- Creating Relational Database Schema.

Assignment Instructions

- Divide students into groups.
- Each group needs to follow the instructions on the remaining slides.
- Then each team member needs to write one additional query.
- Students must submit a word document with step-by-step instructions on what they did accompanied by screenshots.
- Students must submit their MySQL script.

Query 1

[illegible]

Input the following into the file Query 1

```
USE sql_store;  
SELECT * FROM customers;
```

Query 1 Continued...

Query 1 x create-databases

Limit to 1000 rows

```
1 • USE sql_store;
2
3 • SELECT *
4 FROM CUSTOMERS
5 -- WHERE CUSTOMER_ID=1
6 order by first_name
```

Result Grid

	customer_id	first_name	last_name	birth_date	phone	address	city	state	points
▶	4	Ambur	Roseburgh	1974-04-14	407-231-8017	30 Arapahoe Terrace	Orlando	FL	457
	1	Babara	MacCaffrey	1986-03-28	781-932-9754	0 Sage Terrace	Waltham	MA	2273
	5	Clemmie	Betchley	1973-11-07	NULL	5 Spohn Circle	Arlington	TX	3675
	6	Elka	Twiddell	1991-09-04	312-480-8498	7 Manley Drive	Chicago	IL	3073
	3	Freddi	Boagey	1985-02-07	719-724-7869	251 Springs Junction	Colorado Springs	CO	2967
	7	Ilene	Dowson	1964-08-30	615-641-4759	50 Lillian Crossing	Nashville	TN	1672
	2	Ines	Brushfield	1986-04-13	804-427-9456	14187 Commercial Trail	Hampton	VA	947
	10	Levy	Mynett	1969-10-13	404-246-3370	68 Lawn Avenue	Atlanta	GA	796
	9	Romola	Rumgay	1992-05-23	559-181-3744	3520 Ohio Trail	Visalia	CA	1486
	8	Thacher	Naseby	1993-07-17	941-527-3977	538 Mosinee Center	Sarasota	FL	205
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Add the following into the file Query 1

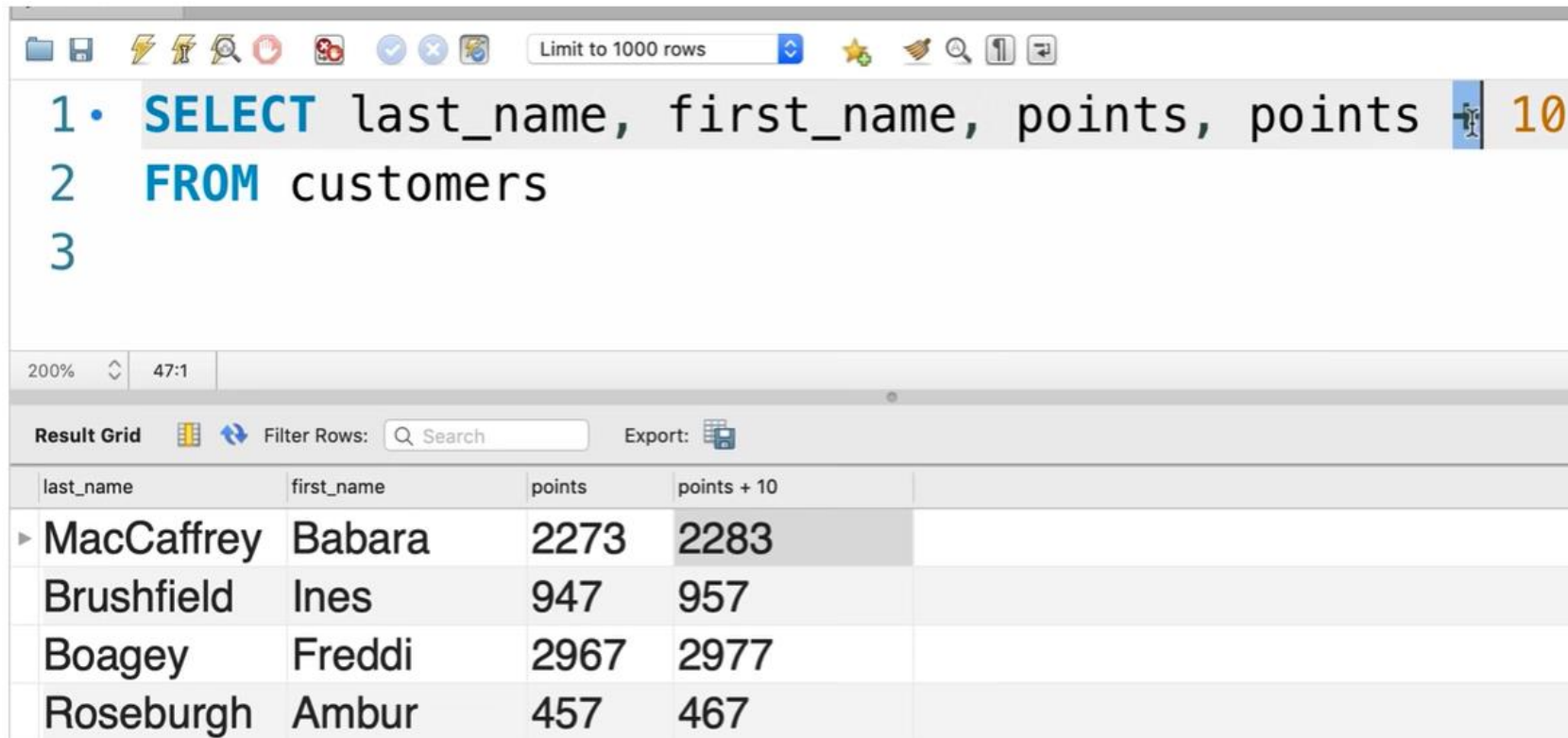
```
-- WHERE CUSTOMER_ID=1
ORDER BY first_name
```


Query 2 SELECT



```
1 • SELECT *
2 FROM customers
```

SELECT last_name, first_name, points, points
+ 10
FROM CUSTOMERS



```
1 • SELECT last_name, first_name, points, points + 10
2 FROM customers
3
```

last_name	first_name	points	points + 10
MacCaffrey	Babara	2273	2283
Brushfield	Ines	947	957
Boagey	Freddi	2967	2977
Roseburgh	Ambur	457	467

Task 1

- Using the Query 2 you created change the points to reads times by 10 and plus 100. Record your results in your word document
- Change the Query 2 code to create a discount factor so the table now shows a discount header and changing the $(\text{point} + 10) * 100$

	last_name	first_name	points	discount_factor
▶	MacCaffrey	Babara	2273	228300
	Brushfield	Ines	947	95700
	Boagey	Freddi	2967	297700
	Roseburgh	Ambur	457	46700
	Betchley	Clemmie	3675	368500
	Twiddell	Elka	3073	308300
	Dowson	Ilene	1672	168200
	Naseby	Thacher	205	21500
	Rumgay	Romola	1486	149600
	Mynett	Levy	796	80600

Record your results in your word document

Task 2

- Write a SQL query to return all the products in our database in the result set. Show three columns, name, unit price, and new column called new price which is based on this expression, $(\text{unit price} * 1.1)$.

So what you are doing is increasing the product price of each by 10%.

So with the query we want all the products the original price and the new price.

Record your results in your word document

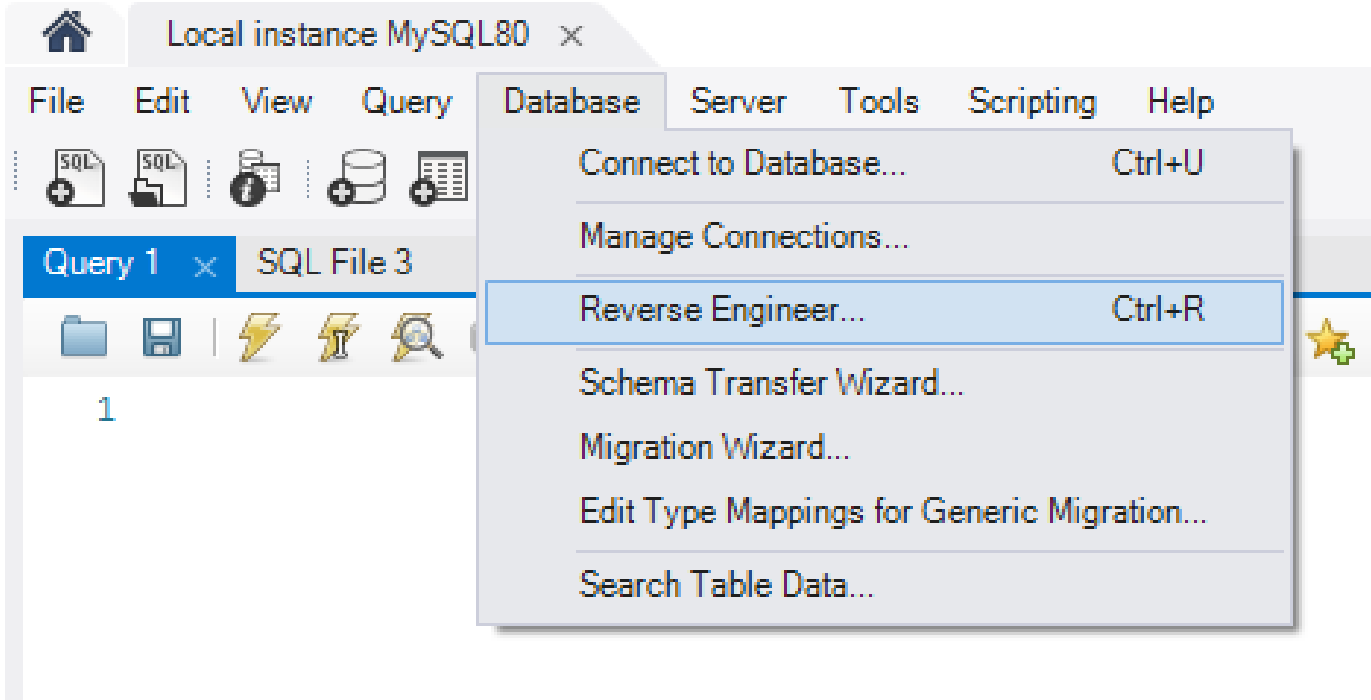
Task 3

- In this task create a new query to find all the customers with a birth date of > '1990-01-01'
- Enter the following:

Record your results in your word document

Creating an EER Diagram





Connection Options

Connect to DBMS

Select Schemas

Retrieve Objects

Select Objects

Reverse Engineer

Results

Set Parameters for Connecting to a DBMS

Stored Connection: Select from saved connection settings

Connection Method: Method to use to connect to the RDBMS

Parameters

SSL

Advanced

Hostname: Port: Name or IP address of the server host - and TCP/IP port.

Username: Name of the user to connect with.

Password: The user's password. Will be requested later if it's not set.

Back

Next

Cancel

Connection Options

Connect to DBMS

Select Schemas

Retrieve Objects

Select Objects

Reverse Engineer

Results

Connect to DBMS and Fetch Information

The following tasks will now be executed. Please monitor the execution.
Press Show Logs to see the execution logs.

- ☒ Connect to DBMS
- ☒ Retrieve Schema List from Database
- ☒ Check Common Server Configuration Issues

Execution Completed Successfully

Fetch finished.

Show Logs

Back

Next

Cancel

Connection Options

Connect to DBMS

Select Schemas

Retrieve Objects

Select Objects

Reverse Engineer

Results

Select Schemas to Reverse Engineer



Select the schemas you want to include:

- ☐ classicmodels
- ☐ sakila
- ☐ sql_hr
 - ☐ sql_inventory
 - ☐ sql_invoicing
 - ☒ sql_store
 - ☐ world

Select Objects to Reverse Engineer



☒ Import MySQL Table Objects

7 Total Objects, 7 Selected

Show Filter

[Connection Options](#)[Connect to DBMS](#)[Select Schemas](#)**[Retrieve Objects](#)**[Select Objects](#)[Reverse Engineer](#)[Results](#)

Retrieve and Reverse Engineer Schema Objects

The following tasks will now be executed. Please monitor the execution.
Press Show Logs to see the execution logs.

- ☒ Retrieve Objects from Selected Schemas
- ☒ Check Results

Retrieval Completed Successfully
Finished.

[Show Logs](#)[Back](#)[Next](#)[Cancel](#)

- Your EER Diagram should look like this.

- Rearrange your EER data to fit on one page

