# ITAD 138 SQL

# Midterm Exam

Midterm Exam is a “hands on”, “open book” test. You can use any resources you wish during the test.

**Restrictions**

* Use of e-mail is not allowed during the test.
* Only workstations in the classroom can be used to take the test. You cannot use your own laptops.
* No flash drives are allowed in the computer.

Please log in into Canvas.

Find the MidTerm Exam under Assignments -> Tests -> MidTerm Exam

**After you completed your work:**

* Submit your result

**Database**

You will be working with database called classicmodels. The database keeps info for a business that sells scale models of cars, motorcycles, ships etc. You can find an ER diagram of the database in the MIDTERM folder in the file **ClassicModelsDBSchema.jpg**

The database consists of eight tables:

* Offices: sales offices
* Employees: All employees, including sales reps who work with customers.
* Customers
* Orders: Orders placed by customers
* Order Details: Line items within an order.
* Payments: Payments made by customers against their account
* Products: The list of scale model cars
* Product Lines: The list of product line classification

**To Create Database**

Run the script called **classicmodels.sql** that can be found in MIDTERM folder. This script creates all the tables and populates them with data.

**Test Questions**

**(10 pts. each, 50 pts. in total)**

*Questions have corresponding screenshots of resulting tables. All the screenshots are located in the MIDTERM folder in Canvas*

1. Find all the cars that belong to “Vintage Cars” line and that have the scale numbers not 1:18. Include car name, scale, and description into the result. Name the columns as in the screenshot in Q1.jpg file. Order by car name. Query returns 9 rows.
2. Find first name, last name and e-mails of all sales representatives (as a job title) in all countries. Include country and city into the resulting table. Order by country in descending order and then by city in ascending order. Returns 17 rows. See screenshot in Q2.jpg file.
3. Find customer names and order details of all the non-US customers whose order status is not ‘shipped’ and not ‘resolved’. Include the following columns: customerName, country, status, productName, and quantityOrdered. Order by customerName. Returns 122 rows.

1. Find out how many orders were made by customers with names starting from letters ‘D’, ‘E’ or ‘M’. The resulting table should have 2 columns: customerName and orderCount (number of orders made). Sort by orderCount from highest to lowest. There must be 22 rows in the result.
2. For all customers in Switzerland and Denmark find out the total amount of payments made. If the customer did not make any payments - place null in the cell. The resulting table should have 5 rows and 3 columns: customerName, country, totalPaid. Round the totalPaid value to 2 digits after decimal point.

HINT: consider using LEFT JOIN