

# DS108-04-11 - Lesson 4 Hands-On

For your Lesson 4 Hands-On, you will be working with your new knowledge on SQL queries. This Hands-On **will** be graded, so be sure you complete all requirements. Please read through the below setup instructions before starting your project.

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style: bullet

### Setup

This Hands-On is structured into two parts, and each part may ask you to run multiple queries. After each query, please take a screenshot of the MySQL output and add it to a Word document (or an equivalent) and name this file SQL-HandsOn4. This way, you will be able to submit your answers to each part all at once.

Now you are ready to get started! Good luck!

Submitting: Be sure to zip and submit your SQL-HandsOn4 Word document when finished! You will not be able to re-submit, so be sure the screenshots to each part are located within this document.

# Part 1

Run the following queries:

## 1a. Create a view named “initialCustomers”

Create a view named “initialCustomers” that shows the first name, last name, and email address of customers that have an id of less than 100.

```
create view initialCustomers as
SELECT first_name, last_name, email
FROM sakila.customer
WHERE customer_id < 100
```

Action Output				
	Time	Response	Duration / Fetch Time	
14	18:44:37	S 599 row(s) returned	0.0021 sec / 0.00080...	
15	18:45:17	ci 0 row(s) affected	0.0068 sec	

## 1b. Select and view “initialCustomers”

Once that is complete, select and view your newly created view.

```
SELECT * FROM initialCustomers
```

Result Grid				
		Filter Rows:	Search	Export:
	first_name	last_name	email	
▶	MARY	SMITH	MARY.SMITH@sakilacustomer.org	
▶	PATRICIA	JOHNSON	PATRICIA.JOHNSON@sakilacustomer.org	
▶	LINDA	WILLIAMS	LINDA.WILLIAMS@sakilacustomer.org	
▶	BARBARA	JONES	BARBARA.JONES@sakilacustomer.org	
▶	ELIZABETH	BROWN	ELIZABETH.BROWN@sakilacustomer.org	
▶	JENNIFER	DAVIS	JENNIFER.DAVIS@sakilacustomer.org	
▶	MARIA	MILLER	MARIA.MILLER@sakilacustomer.org	
▶	SUSAN	WILSON	SUSAN.WILSON@sakilacustomer.org	
▶	MARGARET	MOORE	MARGARET.MOORE@sakilacustomer.org	
▶	DOROTHY	TAYLOR	DOROTHY.TAYLOR@sakilacustomer.org	
▶	LISA	ANDERS...	LISA.ANDERSON@sakilacustomer.org	
▶	NANCY	THOMAS	NANCY.THOMAS@sakilacustomer.org	
▶	KAREN	JACKSON	KAREN.JACKSON@sakilacustomer.org	
▶	BETTY	WHITE	BETTY.WHITE@sakilacustomer.org	
▶	HELEN	HARRIS	HELEN.HARRIS@sakilacustomer.org	
▶	SANDRA	MARTIN	SANDRA.MARTIN@sakilacustomer.org	
▶	DONNA	THOMPS...	DONNA.THOMPSON@sakilacustomer.org	
▶	CAROL	GARCIA	CAROL.GARCIA@sakilacustomer.org	
▶	RUTH	MARTINEZ	RUTH.MARTINEZ@sakilacustomer.org	
▶	SHARON	ROBINSON	SHARON.ROBINSON@sakilacustomer.org	
▶	MICHELLE	CLARK	MICHELLE.CLARK@sakilacustomer.org	
▶	LAURA	RODRIG...	LAURA.RODRIGUEZ@sakilacustomer.org	
▶	SARAH	LEWIS	SARAH.LEWIS@sakilacustomer.org	
▶	KIMBERLY	LEE	KIMBERLY.LEE@sakilacustomer.org	
▶	DEBORAH	WALKER	DEBORAH.WALKER@sakilacustomer.org	
▶	JESSICA	HALL	JESSICA.HALL@sakilacustomer.org	
▶	SHIRLEY	ALLEN	SHIRLEY.ALLEN@sakilacustomer.org	
▶	CYNTHIA	YOUNG	CYNTHIA.YOUNG@sakilacustomer.org	
▶	ANGIE	HERNAN	ANGIE.HERNANDEZ@sakilacustomer.org	

## Part 2

Complete the following:

### 2a. Create a table named “ProductList”.

Include the following columns:

- ProductId
- ProductName
- Price
- DateAdded
- EmployeeSupportId

Include the following requirements:

1. Every product should have an automatically generated id number that should be unique for each product.
2. Give each column a data type that would apply
3. Give the DateAdded column a default value for the current local time.
4. All columns CANNOT be null.

```
/*
ProductID INTEGER PRIMARY KEY AUTO_INCREMENT
ProductName VARCHAR (50) NOT NULL
Price NUMERIC(10,2) NOT NULL
DateAdded DATETIME DEFAULT CURRENT_TIMESTAMP
EmployeeSupportId INTEGER UNIQUE
*/

CREATE TABLE ProductList (
    ProductID INTEGER PRIMARY KEY AUTO_INCREMENT,
    ProductName VARCHAR (50) NOT NULL,
    Price NUMERIC(10,2) NOT NULL,
    DateAdded DATETIME DEFAULT CURRENT_TIMESTAMP,
    EmployeeSupportId INTEGER UNIQUE
)
```

Action Output				
		Time	# Response	Duration / Fetch Time
✓	17	18:50:22	S 99 row(s) returned	0.0011 sec / 0.00004...
✓	18	19:01:24	C 0 row(s) affected	0.015 sec

## 2b. Insert one product into the table following the given guidelines when the table was created.

When inserting the data, don't include the ProductId or the DateAdded.

```
INSERT INTO ProductList (ProductName, Price, EmployeeSupportId)
VALUES ("The Amazing Wiz-bang", 10000.00, 122285)
```

Action Output			
	Time	Action	Response
✖ 22	19:08:00	INSERT INTO ProductList (ProductName, Price, EmployeeSupportId) VALUES ("Th...	Error Code: 1136. Column cc
✔ 23	19:08:30	INSERT INTO ProductList (ProductName, Price, EmployeeSupportId) VALUES ("Th...	1 row(s) affected

## 2c. Run a query to see the single product in your table

```
SELECT * FROM sakila.ProductList;
```

Result Grid					
Filter Rows: Search					
	ProductID	ProductName	Price	DateAdded	EmployeeSupport...
▶ 1		The Amazing Wiz-bang	10000.00	2022-08-31 19:08:30	122285
	NULL	NULL	NULL	NULL	NULL