

SQL-HandsOn4

Alberta “Albi” Kovatcheva

Part 1

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

Query 1: Examine customer data.

```
SELECT * FROM customer LIMIT 5;
```



Query 2: Create view.

```
CREATE VIEW initialCustomers AS  
SELECT first_name, last_name, email  
FROM customer  
WHERE customer_id < 100;
```

Query 3: See data in newly created view.

```
SELECT * FROM initialCustomers;
```

Results (99 rows returned):

Result Grid  Filter Rows: <input type="text"/> Export:  Wr			
	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	ANDERSON	LISA.ANDERSON@sakilacustomer.org
	NANCY	THOMAS	NANCY.THOMAS@sakilacustomer.org
	KAREN	JACKSON	KAREN.JACKSON@sakilacustomer.org

Part 2

2. Complete the following:

Create a table named "ProductList". Include the following columns:

- ProductId
- ProductName
- Price
- DateAdded
- EmployeeSupportId

Include the following requirements:

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

Query 1: Delete already-existing table called 'ProductList'.

```
DROP TABLE ProductList;
```

Query 2: Create table.

```
CREATE TABLE ProductList (  
  ProductId INTEGER PRIMARY KEY AUTO_INCREMENT,  
  ProductName VARCHAR(50) NOT NULL,  
  Price DECIMAL(13,2) NOT NULL,  
  DateAdded DATETIME DEFAULT CURRENT_TIMESTAMP,  
  EmployeeSupportId TINYINT UNSIGNED NOT NULL);
```

Next, 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. Finally, run a query to see the single product in your table.

Query 3: See data in 'staff' table.

```
SELECT * FROM staff LIMIT 5;
```

Query 4: Insert data into newly-created 'ProductList' table.

```
INSERT INTO ProductList (ProductName, Price, EmployeeSupportId)  
VALUES("Jewelry", 111.11, 1);
```

Query 5: View data added to 'ProductList' table.

```
SELECT * FROM ProductList;
```

Results (1 row returned):

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	ProductId	ProductName	Price	DateAdded	EmployeeSupportId
▶	1	Jewelry	111.11	2021-07-06 00:33:32	1
✱	NULL	NULL	NULL	NULL	NULL

Part 3

Experimentation with using a foreign key.

Query 1: Creating a table. Both the EmployeeSupportId and staff_id need to have the same variable type for this to work.

```
CREATE TABLE ProductList1 (  
  ProductId INTEGER PRIMARY KEY AUTO_INCREMENT,  
  ProductName VARCHAR(50) NOT NULL,  
  Price DECIMAL(13,2) NOT NULL,  
  DateAdded DATETIME DEFAULT CURRENT_TIMESTAMP,  
  EmployeeSupportId TINYINT UNSIGNED NOT NULL,  
  FOREIGN KEY(EmployeeSupportId) REFERENCES staff(staff_id));
```

Query 2: Finding the variable type of staff_id to determine appropriate values for EmployeeSupportId.
DESCRIBE staff;

Query 3: Inserting data into newly-created table.

```
INSERT INTO ProductList1 (ProductName, Price, EmployeeSupportId)  
VALUES("Jewelry", 111.11, 1);
```






Query 4: Viewing newly-added data.

```
SELECT * FROM ProductList1;
```

Query 5: Dropping the redundant table used for this experiment.

```
DROP TABLE ProductList1;
```

Results (1 row returned):

Result Grid  Filter Rows: <input type="text"/> Edit:    Export/Import: 					
	ProductId	ProductName	Price	DateAdded	EmployeeSupportId
▶	1	Jewelry	111.11	2021-07-06 01:28:54	1
✱	NULL	NULL	NULL	NULL	NULL