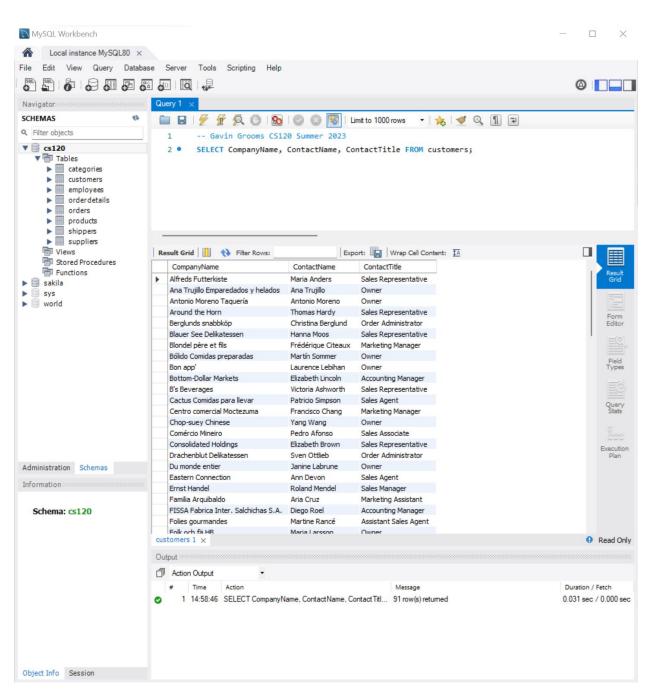
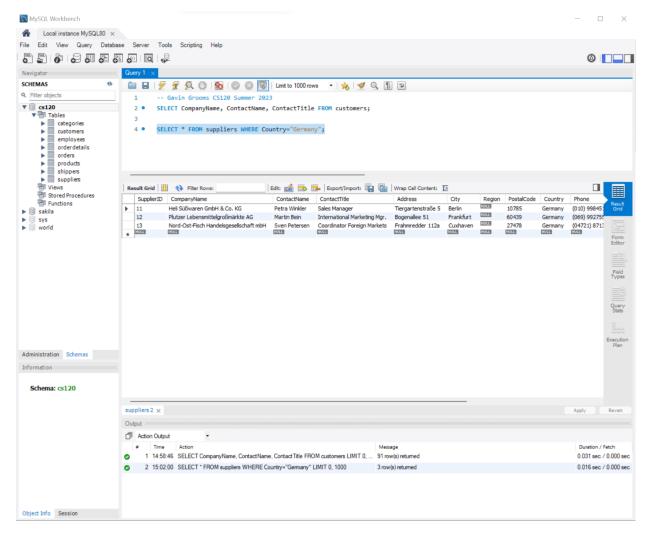
# Unit 3 PS1: SQL

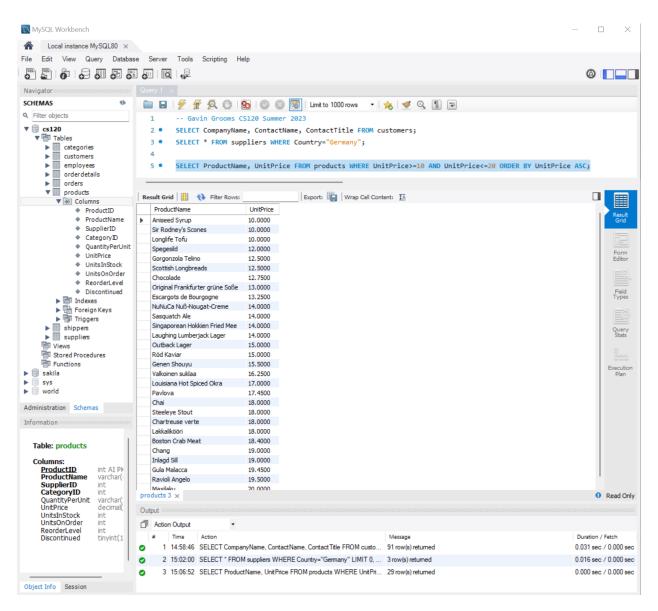
### **Gavin Grooms**

#### CS120 Summer 2023

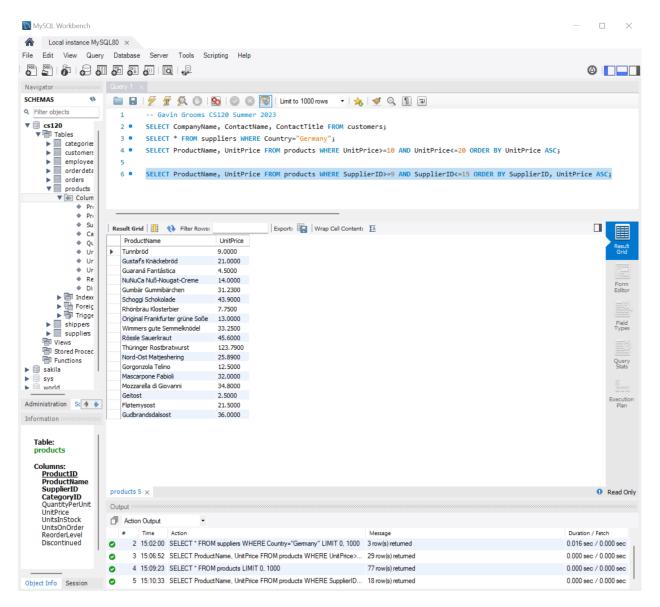


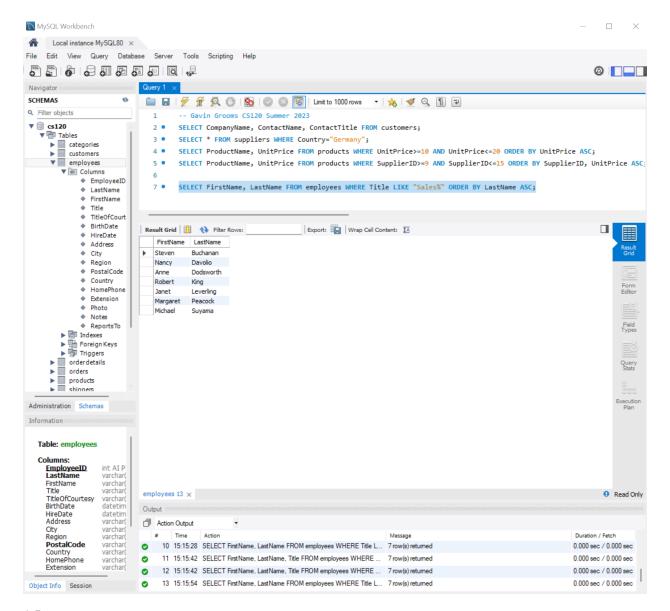


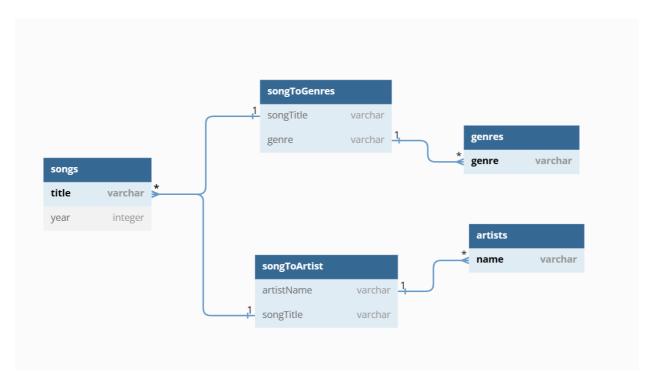
1.2



1.3







2.1

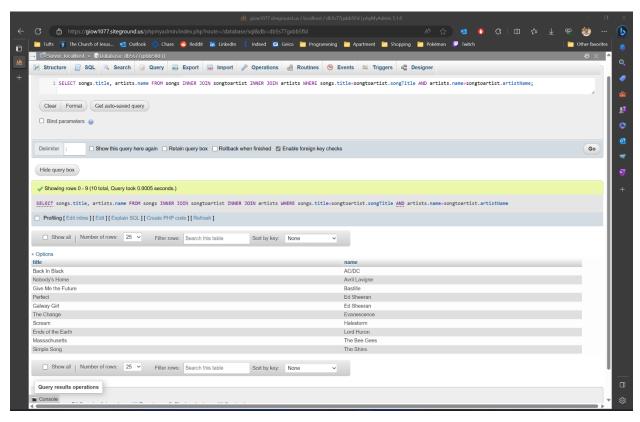
```
CREATE TABLE 'artists' (
 'name' varchar(50) NOT NULL,
PRIMARY KEY ('name')
CREATE TABLE 'genres' (
 'genre' varchar(50) NOT NULL,
PRIMARY KEY ('genre')
);
CREATE TABLE `songs` (
 'title' varchar(50) NOT NULL,
 'year' varchar(10) NOT NULL,
 PRIMARY KEY ('title')
);
CREATE TABLE `songtoartist` (
 `songTitle` varchar(50) NOT NULL,
 `artistName` varchar(50) NOT NULL,
CONSTRAINT `artist2` FOREIGN KEY (`artistName`) REFERENCES `artists` (`name`) ON DELETE CASCADE
ON UPDATE CASCADE,
CONSTRAINT 'songTitle2' FOREIGN KEY ('songTitle') REFERENCES 'songs' ('title') ON DELETE CASCADE
ON UPDATE CASCADE
);
CREATE TABLE 'songtogenres' (
 `songTitle` varchar(50) NOT NULL,
 'genre' varchar(50) NOT NULL,
 CONSTRAINT 'genre' FOREIGN KEY ('genre') REFERENCES 'genres' ('genre') ON DELETE CASCADE ON
UPDATE CASCADE,
CONSTRAINT 'songTitle' FOREIGN KEY ('songTitle') REFERENCES 'songs' ('title') ON DELETE CASCADE
ON UPDATE CASCADE
);
INSERT INTO songs VALUES
       ("Perfect", "2017"),
       ("Ends of the Earth", "2012"),
       ("The Change", "2011"),
       ("Galway Girl", 2017),
       ("Massachusetts", "1967"),
       ("Back In Black", "1980"),
       ("Give Me the Future", "2022"),
        ("Nobody's Home", "2004"),
       ("Simple Song", "2012"),
       ("Scream", "2015");
```

```
INSERT INTO artists VALUES
        ("Ed Sheeran"),
        ("Lord Huron"),
        ("Evanescence"),
        ("The Bee Gees"),
        ("AC/DC"),
        ("Bastille"),
        ("Avril Lavigne"),
        ("The Shins"),
        ("Halestorm");
INSERT INTO genres VALUES
        ("Hard Rock"),
        ("Alternative"),
        ("Pop"),
        ("Dance Pop"),
        ("Heavy Metal"),
        ("Rock");
INSERT INTO songtoartist VALUES
        ("Perfect", "Ed Sheeran"),
        ("Ends of the Earth", "Lord Huron"),
        ("The Change", "Evanescence"),
        ("Galway Girl", "Ed Sheeran"),
        ("Massachusetts", "The Bee Gees"),
        ("Back In Black", "AC/DC"),
        ("Give Me the Future", "Bastille"),
        ("Nobody's Home", "Avril Lavigne"),
        ("Simple Song", "The Shins"),
        ("Scream", "Halestorm");
INSERT INTO songtogenres VALUES
        ("Perfect", "Pop"),
        ("Ends of the Earth", "Rock"),
        ("The Change", "Rock"),
        ("Galway Girl", "Pop"),
        ("Massachusetts", "Pop"),
        ("Back In Black", "Hard Rock"),
        ("Back In Black", "Heavy Metal"),
        ("Give Me the Future", "Alternative"),
        ("Give Me the Future", "Dance Pop"),
        ("Nobody's Home", "Pop"),
        ("Simple Song", "Alternative"),
        ("Scream", "Hard Rock");
```

Run SQL query/queries on database db5s77gxbb5fld:		
3		
1 SELECT * FROM artists;		
2 SELECT * FROM genres;		
3 SELECT * FROM songs;		
4 SELECT * FROM songtoartist;		
5 SELECT * FROM songtogenres;		
Class   Famout   Catasta assistance		
Clear Format Get auto-saved query		
☐ Bind parameters		
Sind parameters		
Delimiter ; Show this query here again Retain query box Rollback when the	finished 🗹 Enable foreign key checks	
( Hide query box )		
Showing rows 0 - 8 (9 total, Query took 0,0004 seconds,)		
SELECT * FROM artists		
name		
AC/DC		
Avril Lavigne		
Bastille		
Ed Sheeran		
Evanescence		
Halestorm		
Lord Huron		
The Gees		
The Shins		
Showing rows 0 - 5 (6 total, Query took 0.0002 seconds.)		
SELECT * FROM genres		
SELECT TROPE BEHINGS		
genre		
Alternative		
Dance Pop		
Hard Rock		
Heavy Metal		
Рор		
Rock		
Showing rows 0 - 9 (10 total, Query took 0.0003 seconds.)		
SELECT * FROM songs		
title	year	
Back In Black	1980	
Ends of the Earth	2012	
Galway Girl	2017	
Give Me the Future	2022	
Massachusetts	1967	
Nobody's Home	2004	
Perfect	2017	
Scream	2017	
Simple Song The Change	2012 2011	
The Orlange	2011	
Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete	teatures are not available.	
Showing rows 0 - 9 (10 total, Query took 0.0003 seconds.)		
SELECT * FROM songtoartist		
SELECT . LYON POLISCOSISTS		
songTitle	artistName	
Perfect	Ed Sheeran	
Ends of the Earth	Lord Huron	
The Change	Evanescence	
Galway Girl	Ed Sheeran	
Massachusetts	The Bee Gees	
Back In Black	AC/DC	
Give Me the Future	Bastille	
Nobody's Home	Avril Lavigne	
Simple Song	The Shins	
Scream	Halestorm	

## SELECT \* FROM songtogenres

songTitle	genre
Perfect	Pop
Ends of the Earth	Rock
The Change	Rock
Galway Girl	Pop
Massachusetts	Рор
Back In Black	Hard Rock
Back In Black	Heavy Metal
Give Me the Future	Alternative
Give Me the Future	Dance Pop
Nobody's Home	Рор
Simple Song	Alternative
Scream	Hard Rock



## 2.4.1

