

## Deliverables SQL

Part 1 queries (show query only, not the result):

1. Display the company name, contact name, and city for all CUSTOMERS.

A:

```
SELECT CustomerName, ContactName, City
FROM customers;
```

2. Display all information for all German SUPPLIERS

A:

```
SELECT *
FROM suppliers
WHERE Country = 'Germany';
```

3. Display name and price of all PRODUCTS whose price is between \$10 and \$20 (inclusive) sorted from lowest to highest price

A:

```
SELECT ProductName, Price
FROM products
WHERE Price BETWEEN 10 AND 20
ORDER BY Price ASC;
```

4. Display the PRODUCT name and price for suppliers 9-15 sorted by supplier number and then by product name

A:

```
Version 1: WITH BETWEEN construct
SELECT ProductName, Price
FROM products
WHERE SupplierID BETWEEN 9 AND 15
ORDER BY SupplierID, ProductName;
```

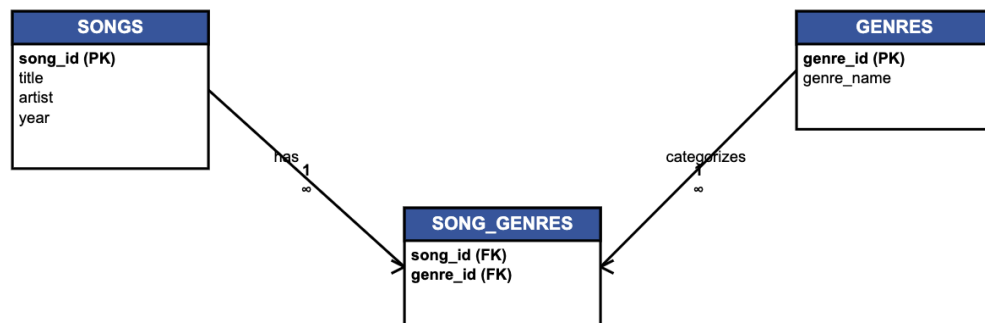
```
Version 2: WITHOUT BETWEEN construct
SELECT ProductName, Price
FROM products
WHERE SupplierID >= 9 AND SupplierID <= 15
ORDER BY SupplierID, ProductName;
```

5. Display the name of all EMPLOYEES with a BA or BS degree (hint: use the notes) sorted alphabetically by their last name.

A:

```
SELECT FirstName, LastName
FROM employees
WHERE Notes LIKE '%BA%' OR Notes LIKE '%BS%'
ORDER BY LastName;
```

## Part 2 ERD



1. Screen shot of database tables created in phpMyAdmin (“browse” to display each table). Paste below.

Server: localhost > Database: dbo0znjggquaen (songlist) > Table: songs

Showing rows 0 – 7 (8 total, Query took 0.0008 seconds.)

```
SELECT * FROM `songs`
```

☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ] [ [Refresh](#) ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	song_id	title	artist	year
<input type="checkbox"/> Edit Copy Delete	1	Anti-Hero	Taylor Swift	2022
<input type="checkbox"/> Edit Copy Delete	2	Shake It Off	Taylor Swift	2014
<input type="checkbox"/> Edit Copy Delete	3	SOLO	Jennie	2018
<input type="checkbox"/> Edit Copy Delete	4	You & Me	Jennie	2023
<input type="checkbox"/> Edit Copy Delete	5	Rolling in the Deep	Adele	2010
<input type="checkbox"/> Edit Copy Delete	6	Someone Like You	Adele	2011
<input type="checkbox"/> Edit Copy Delete	7	Hello	Adele	2015
<input type="checkbox"/> Edit Copy Delete	8	Easy On Me	Adele	2021

☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Server: localhost >> Database: dbo0znjggquaen (songlist) >> Table: genres

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#) [Operations](#) [Triggers](#)

✓ Showing rows 0 – 3 (4 total, Query took 0.0002 seconds.)

```
SELECT * FROM `genres`
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	genre_id	genre_name
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	2	country
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	3	k-pop
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	1	pop
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	4	soul

↑ ☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

[Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

phpMyAdmin

Recent Favorites

- dbo0znjggquaen (songlist)
- information\_schema
- performance\_schema

Server: localhost >> Database: dbo0znjggquaen (songlist) >> Table: song\_genres

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#) [Operations](#) [Triggers](#)

✓ Showing rows 0 – 11 (12 total, Query took 0.0001 seconds.)

```
SELECT * FROM `song_genres`
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	song_id	genre_id
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	1	1
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	2	1
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	3	1
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	4	1
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	5	1
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	6	1
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	7	1
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	8	1
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	1	2
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	3	3
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	5	4
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	7	4

↑ ☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

## Part 2 Queries (show query plus screenshot of result):

### 2. show all data in each of the tables

A:

Show all songs

SELECT \* FROM songs;

The screenshot shows a database management interface with the following components:

- Header:** Server: localhost > Database: dbo0znjgggquae (songlist) > Table: songs
- Navigation:** Browse, Structure, SQL, Search, Insert, Export, Import, Operations, Triggers
- Query Box:** Shows the query `SELECT * FROM songs;` and a status message: "Showing rows 0 - 7 (8 total, Query took 0.0016 seconds.)"
- Options:** Checkboxes for "Show all", "Number of rows: 25", "Filter rows: Search this table", and "Sort by key: None".
- Table:** A table with 5 columns: song\_id, title, artist, year. It contains 8 rows of data.
- Extra options:** A section with "Check all" and "With selected:" options, followed by "Edit", "Copy", "Delete", and "Export" buttons.

song_id	title	artist	year
1	Anti-Hero	Taylor Swift	2022
2	Shake It Off	Taylor Swift	2014
3	SOLO	Jennie	2018
4	You & Me	Jennie	2023
5	Rolling in the Deep	Adele	2010
6	Someone Like You	Adele	2011
7	Hello	Adele	2015
8	Easy On Me	Adele	2021

Show all genres

SELECT \* FROM genres;

The screenshot shows a database management interface with the following components:

- Header:** Server: localhost > Database: dbo0znjgggquae (songlist) > Table: genres
- Navigation:** Browse, Structure, SQL, Search, Insert, Export, Import, Operations, Triggers
- Query Box:** Shows the query `SELECT * FROM `genres`` and a status message: "Showing rows 0 - 3 (4 total, Query took 0.0002 seconds.)"
- Options:** Checkboxes for "Show all", "Number of rows: 25", "Filter rows: Search this table", and "Sort by key: None".
- Table:** A table with 2 columns: genre\_id, genre\_name. It contains 4 rows of data.
- Extra options:** A section with "Check all" and "With selected:" options, followed by "Edit", "Copy", "Delete", and "Export" buttons.

genre_id	genre_name
2	country
3	k-pop
1	pop
4	soul

Show all song-genre relationships

SELECT \* FROM song\_genres;

Server: localhost > Database: dbo0znjggquaen (songlist) > Table: song\_genres

Browse Structure SQL Search Insert Export Import Operations Triggers

Showing rows 0 – 11 (12 total, Query took 0.0002 seconds.)

SELECT \* FROM `song\_genres`

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

		song_id	genre_id
<input type="checkbox"/>	Edit Copy Delete	1	1
<input type="checkbox"/>	Edit Copy Delete	2	1
<input type="checkbox"/>	Edit Copy Delete	3	1
<input type="checkbox"/>	Edit Copy Delete	4	1
<input type="checkbox"/>	Edit Copy Delete	5	1
<input type="checkbox"/>	Edit Copy Delete	6	1
<input type="checkbox"/>	Edit Copy Delete	7	1
<input type="checkbox"/>	Edit Copy Delete	8	1
<input type="checkbox"/>	Edit Copy Delete	1	2
<input type="checkbox"/>	Edit Copy Delete	3	3
<input type="checkbox"/>	Edit Copy Delete	5	4
<input type="checkbox"/>	Edit Copy Delete	7	4

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

3. show all song titles and the corresponding artist

A:

SELECT title, artist FROM songs;

Server: localhost > Database: dbo0znjggquaen (songlist) > Table: songs

Browse Structure SQL Search Insert Export Import Operations Triggers

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 – 7 (8 total, Query took 0.0002 seconds.)

SELECT title, artist FROM songs;

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

title	artist
Anti-Hero	Taylor Swift
Shake It Off	Taylor Swift
SOLO	Jennie
You & Me	Jennie
Rolling in the Deep	Adele
Someone Like You	Adele
Hello	Adele
Easy On Me	Adele

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

4. show all titles and all genres that correspond to them - hint: you will need a join for this.

A:

```
SELECT s.title, g.genre_name
FROM songs s
INNER JOIN song_genres sg ON s.song_id = sg.song_id
INNER JOIN genres g ON sg.genre_id = g.genre_id
ORDER BY s.title, g.genre_name;
```

title	1	genre_name
Anti-Hero		country
Anti-Hero		pop
Easy On Me		pop
Hello		pop
Hello		soul
Rolling in the Deep		pop
Rolling in the Deep		soul
Shake It Off		pop
SOLO		k-pop
SOLO		pop
Someone Like You		pop
You & Me		pop