Part 1

1.

SQL Statement:

Get your own SQL server

```
SELECT CustomerName, ContactName, CompanyName
FROM CUSTOMERS
LIMIT 5;
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 5

CustomerName	ContactName
Alfreds Futterkiste	Maria Anders
Ana Trujillo Emparedados y helados	Ana Trujillo
Antonio Moreno Taquería	Antonio Moreno
Around the Horn	Thomas Hardy
Berglunds snabbköp	Christina Berglund

SQL Statement:

Get your own SQL server

```
SELECT *
FROM CUSTOMERS
LIMIT 5;
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 5

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	05021	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	05023	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden

2.

SQL Statement:

Get your own SQL server

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

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 3

SupplierID	SupplierName	ContactName	Address	City	PostalCode	Country	Phone
11	Heli Süßwaren GmbH & Co. KG	Petra Winkler	Tiergartenstraße 5	Berlin	10785	Germany	(010) 9984510
12	Plutzer Lebensmittelgroßmärkte AG	Martin Bein	Bogenallee 51	Frankfurt	60439	Germany	(069) 992755
13	Nord-Ost-Fisch Handelsgesellschaft mbH	Sven Petersen	Frahmredder 112a	Cuxhaven	27478	Germany	(04721) 8713

3.

SQL Statement:

```
SELECT ProductName, Price
FROM PRODUCTS
WHERE Price >= 10 AND Price <= 20
ORDER BY PRICE ASC
LIMIT 10;
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 10

ProductName	Price
Aniseed Syrup	10
Sir Rodney's Scones	10
Longlife Tofu	10
Spegesild	12
Gorgonzola Telino	12.5
Scottish Longbreads	12.5
Chocolade	12.75
Original Frankfurter grüne Soße	13
Escargots de Bourgogne	13.25
NuNuCa Nuß-Nougat-Creme	14

4.

SQL Statement:

Get your own SQL server

```sql
SELECT ProductName, Price, SupplierID
FROM PRODUCTS
WHERE SupplierID >= 9 AND SupplierID <= 15
ORDER BY SupplierID ASC, ProductName ASC
LIMIT 10;
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 10

ProductName	Price	SupplierID
Gustaf's Knäckebröd	21	9
Tunnbröd	9	9
Guaraná Fantástica	4.5	10
Gumbär Gummibärchen	31.23	11
NuNuCa Nuß-Nougat-Creme	14	11
Schoggi Schokolade	43.9	11
Original Frankfurter grüne Soße	13	12
Rhönbräu Klosterbier	7.75	12
Rössle Sauerkraut	45.6	12
Thüringer Rostbratwurst	123.79	12

Note: The prompt doesn't explicitly ask to include the SupplierID but I included it in this statement to show the filter criteria in the WHERE clause.

5.

SQL Statement:

Get your own SQL server

```
SELECT FirstName || ' ' || LastName as EmployeeName
FROM EMPLOYEES
JOIN ORDERS ON EMPLOYEES.EmployeeID=ORDERS.EmployeeID
GROUP BY EmployeeName
ORDER BY LastName;
```

Edit the SQL Statement, and click "Run SQL" to see the result.
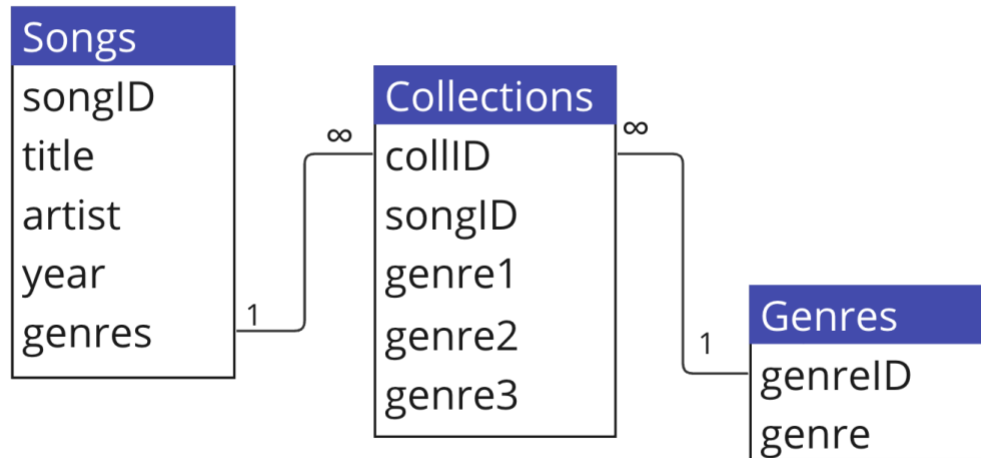
Run SQL »

Result:

Number of Records: 9

EmployeeName
Steven Buchanan
Laura Callahan
Nancy Davolio
Anne Dodsworth
Andrew Fuller
Robert King
Janet Leverling
Margaret Peacock
Michael Suyama

Part 2

1. Song List ERD

Song List ERD

2.

See InsertSQLStatements.xlsx.

3.

Songs table

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

`SELECT * FROM `Songs``

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

`UPDATE `Songs` SET `songID` = '12' WHERE `Songs`.`songID` = 29;`

[Edit inline] [Edit] [Create PHP code]

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

+ Options

				songID	title	artist	year	genres
☐	🖊 Edit	🗐 Copy	⊖ Delete	1	Bohemian Rhapsody	Queen	1975	1
☐	🖊 Edit	🗐 Copy	⊖ Delete	2	Shape of You	Ed Sheeran	2017	2
☐	🖊 Edit	🗐 Copy	⊖ Delete	3	Billie Jean	Michael Jackson	1982	3
☐	🖊 Edit	🗐 Copy	⊖ Delete	4	Hotel California	Eagles	1976	4
☐	🖊 Edit	🗐 Copy	⊖ Delete	5	Rolling in the Deep	Adele	2010	5
☐	🖊 Edit	🗐 Copy	⊖ Delete	6	Sweet Child of Mine	Guns N Roses	1987	6
☐	🖊 Edit	🗐 Copy	⊖ Delete	7	Hey Jude	The Beatles	1968	7
☐	🖊 Edit	🗐 Copy	⊖ Delete	8	No Woman, No Cry	Bob Marley	1974	8
☐	🖊 Edit	🗐 Copy	⊖ Delete	9	Take on Me	a-Ha	1984	9
☐	🖊 Edit	🗐 Copy	⊖ Delete	10	Volare	Gypsy Kings	1989	10
☐	🖊 Edit	🗐 Copy	⊖ Delete	11	Ventura Highway	America	1972	11
☐	🖊 Edit	🗐 Copy	⊖ Delete	12	On the Street Where You Live	Dean Martin	1956	12

Genres table

Showing rows 0 - 16 (17 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

+ Options

				genreID	genre
☐	🖊 Edit	🗐 Copy	⊖ Delete	1	rock
☐	🖊 Edit	🗐 Copy	⊖ Delete	2	progressive rock
☐	🖊 Edit	🗐 Copy	⊖ Delete	3	pop
☐	🖊 Edit	🗐 Copy	⊖ Delete	4	R&B
☐	🖊 Edit	🗐 Copy	⊖ Delete	5	dance
☐	🖊 Edit	🗐 Copy	⊖ Delete	6	funk
☐	🖊 Edit	🗐 Copy	⊖ Delete	7	soft rock
☐	🖊 Edit	🗐 Copy	⊖ Delete	8	soul
☐	🖊 Edit	🗐 Copy	⊖ Delete	9	hard rock
☐	🖊 Edit	🗐 Copy	⊖ Delete	10	heavy metal
☐	🖊 Edit	🗐 Copy	⊖ Delete	11	reggae
☐	🖊 Edit	🗐 Copy	⊖ Delete	12	ska
☐	🖊 Edit	🗐 Copy	⊖ Delete	13	synthpop
☐	🖊 Edit	🗐 Copy	⊖ Delete	14	new wave
☐	🖊 Edit	🗐 Copy	⊖ Delete	15	latin pop
☐	🖊 Edit	🗐 Copy	⊖ Delete	16	folk rock
☐	🖊 Edit	🗐 Copy	⊖ Delete	17	musical theater

↑ ☐ Check all   With selected: 🖊 Edit 🗐 Copy ⊖ Delete 📥 Export

Collections table (assignment table between N:N Songs and Genres)

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

SELECT * FROM `Collections`

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

+ Options

				collID	songID	genre1	genre2	genre3
☐	🖉 Edit	🔩 Copy	⊖ Delete	1	1	1	2	0
☐	🖉 Edit	🔩 Copy	⊖ Delete	2	2	3	4	0
☐	🖉 Edit	🔩 Copy	⊖ Delete	3	3	3	5	6
☐	🖉 Edit	🔩 Copy	⊖ Delete	4	4	1	7	0
☐	🖉 Edit	🔩 Copy	⊖ Delete	5	5	3	8	4
☐	🖉 Edit	🔩 Copy	⊖ Delete	6	6	9	10	0
☐	🖉 Edit	🔩 Copy	⊖ Delete	7	7	1	3	0
☐	🖉 Edit	🔩 Copy	⊖ Delete	8	8	11	12	0
☐	🖉 Edit	🔩 Copy	⊖ Delete	9	9	13	14	0
☐	🖉 Edit	🔩 Copy	⊖ Delete	10	10	3	15	0
☐	🖉 Edit	🔩 Copy	⊖ Delete	11	11	7	16	1
☐	🖉 Edit	🔩 Copy	⊖ Delete	12	12	17	0	0

4.
Song Titles & Artists

Showing rows 0 - 11 (12 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

+ Options

				title	artist
☐	🖉 Edit	🔩 Copy	⊖ Delete	Bohemian Rhapsody	Queen
☐	🖉 Edit	🔩 Copy	⊖ Delete	Shape of You	Ed Sheeran
☐	🖉 Edit	🔩 Copy	⊖ Delete	Billie Jean	Michael Jackson
☐	🖉 Edit	🔩 Copy	⊖ Delete	Hotel California	Eagles
☐	🖉 Edit	🔩 Copy	⊖ Delete	Rolling in the Deep	Adele
☐	🖉 Edit	🔩 Copy	⊖ Delete	Sweet Child of Mine	Guns N Roses
☐	🖉 Edit	🔩 Copy	⊖ Delete	Hey Jude	The Beatles
☐	🖉 Edit	🔩 Copy	⊖ Delete	No Woman, No Cry	Bob Marley
☐	🖉 Edit	🔩 Copy	⊖ Delete	Take on Me	a-Ha
☐	🖉 Edit	🔩 Copy	⊖ Delete	Volare	Gypsy Kings
☐	🖉 Edit	🔩 Copy	⊖ Delete	Ventura Highway	America
☐	🖉 Edit	🔩 Copy	⊖ Delete	On the Street Where You Live	Dean Martin

Song Titles & Genres

Showing rows 0 - 11 (12 total, Query took 0.0003 seconds.)

SELECT Songs.title, Songs.genres, Collections.genre1, Collections.genre2, Collections.genre3 from Songs JOIN Collections ON Collections.collID=Songs.songID

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

+ Options

title	genres	genre1	genre2	genre3
Bohemian Rhapsody	1	1	2	0
Shape of You	2	3	4	0
Billie Jean	3	3	5	6
Hotel California	4	1	7	0
Rolling in the Deep	5	3	8	4
Sweet Child of Mine	6	9	10	0
Hey Jude	7	1	3	0
No Woman, No Cry	8	11	12	0
Take on Me	9	13	14	0
Volare	10	3	15	0
Ventura Highway	11	7	16	1
On the Street Where You Live	12	17	0	0