

# Advanced Database Project

**Project Title**

**(spotify)**

**Project No**

**(77)**

**Team Nickname**

**(backend developers)**

## Team Members

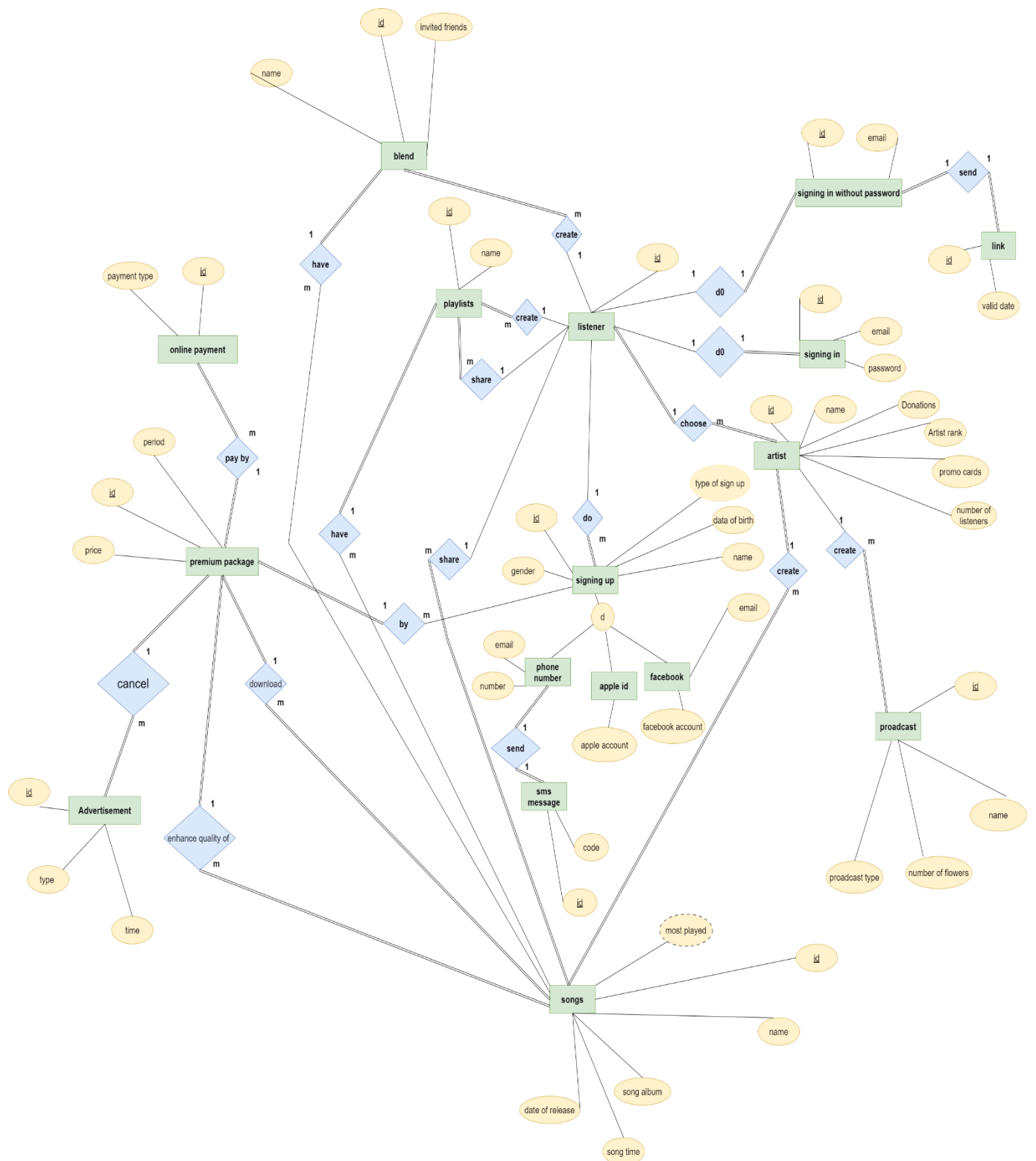
No	ID	Member Name	Notes (by doctor)
1	2021169	George Ashraf shawky	
2	2021230	Demiana magdy fawzy	
3	2021541	Kerollos magdy Samir	
4	2021241	Ramez hany hakim	
5	2021773	Menatallah tarek taha	
6	2021446	Omar ahmed walid	
7	2021051	Adham tharwat mohamed	

## Notes By Doctor:

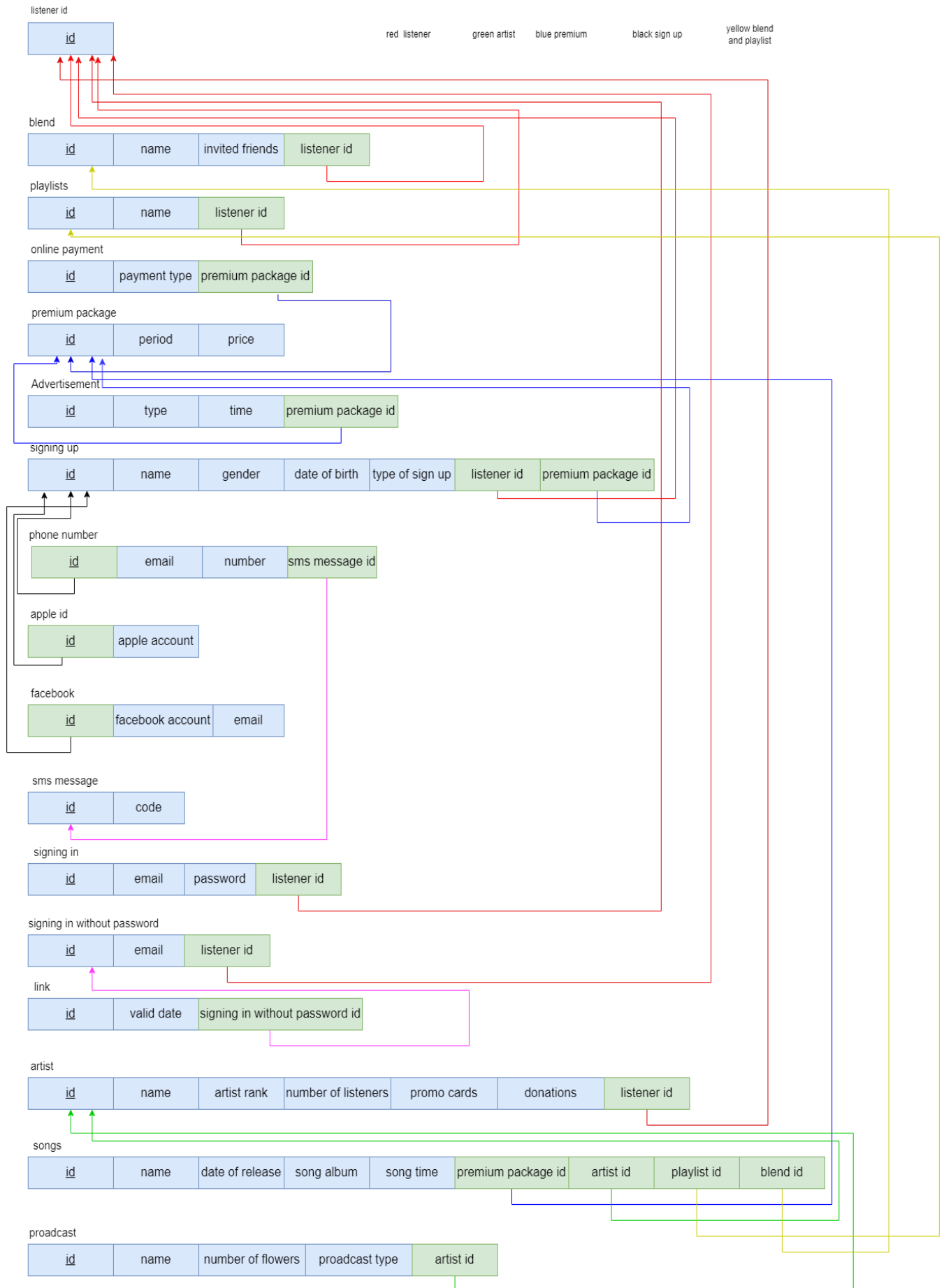
Supervised By

**Dr. Mohamed Abdelsalam**

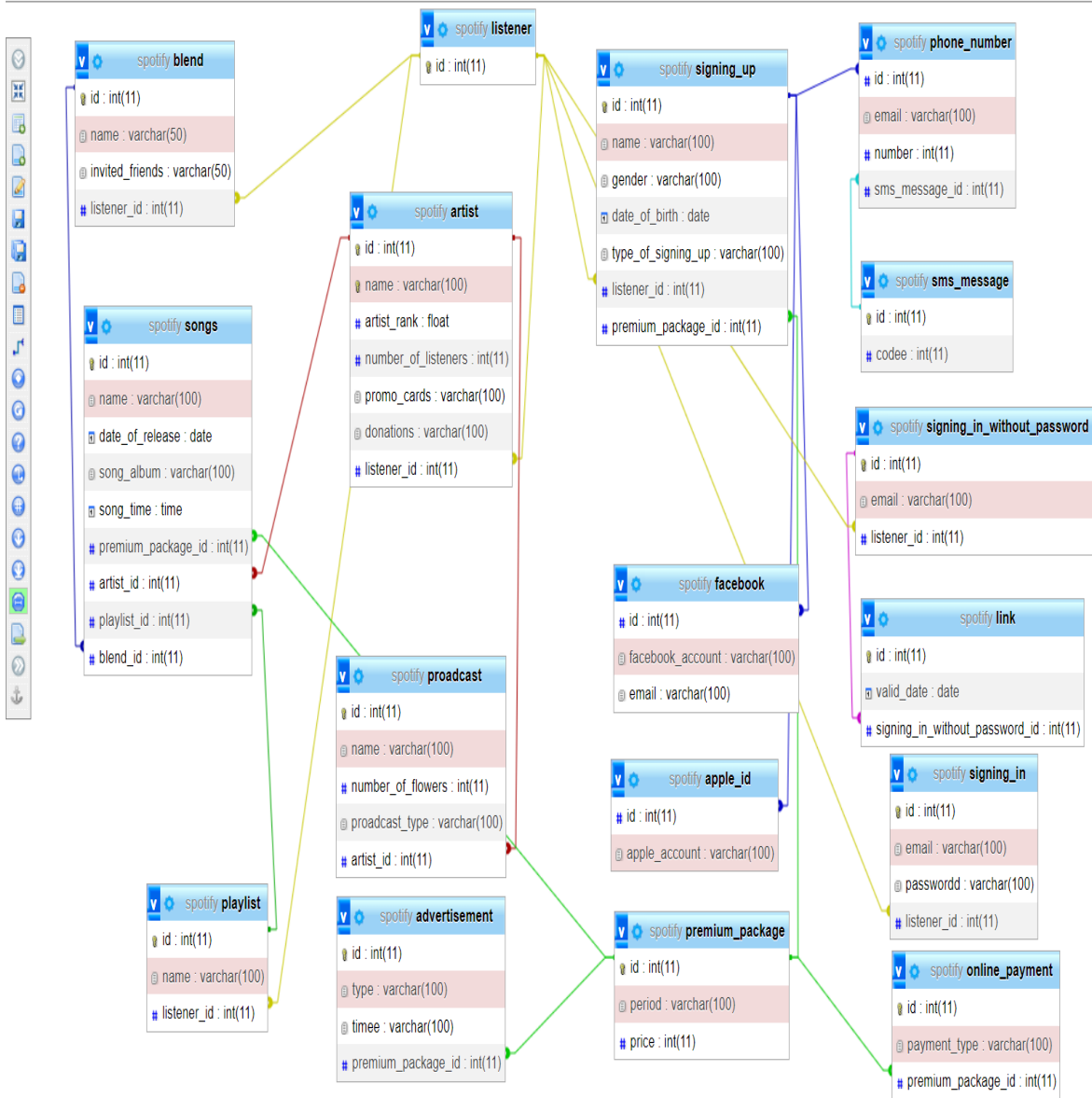
# EERD



# mapping

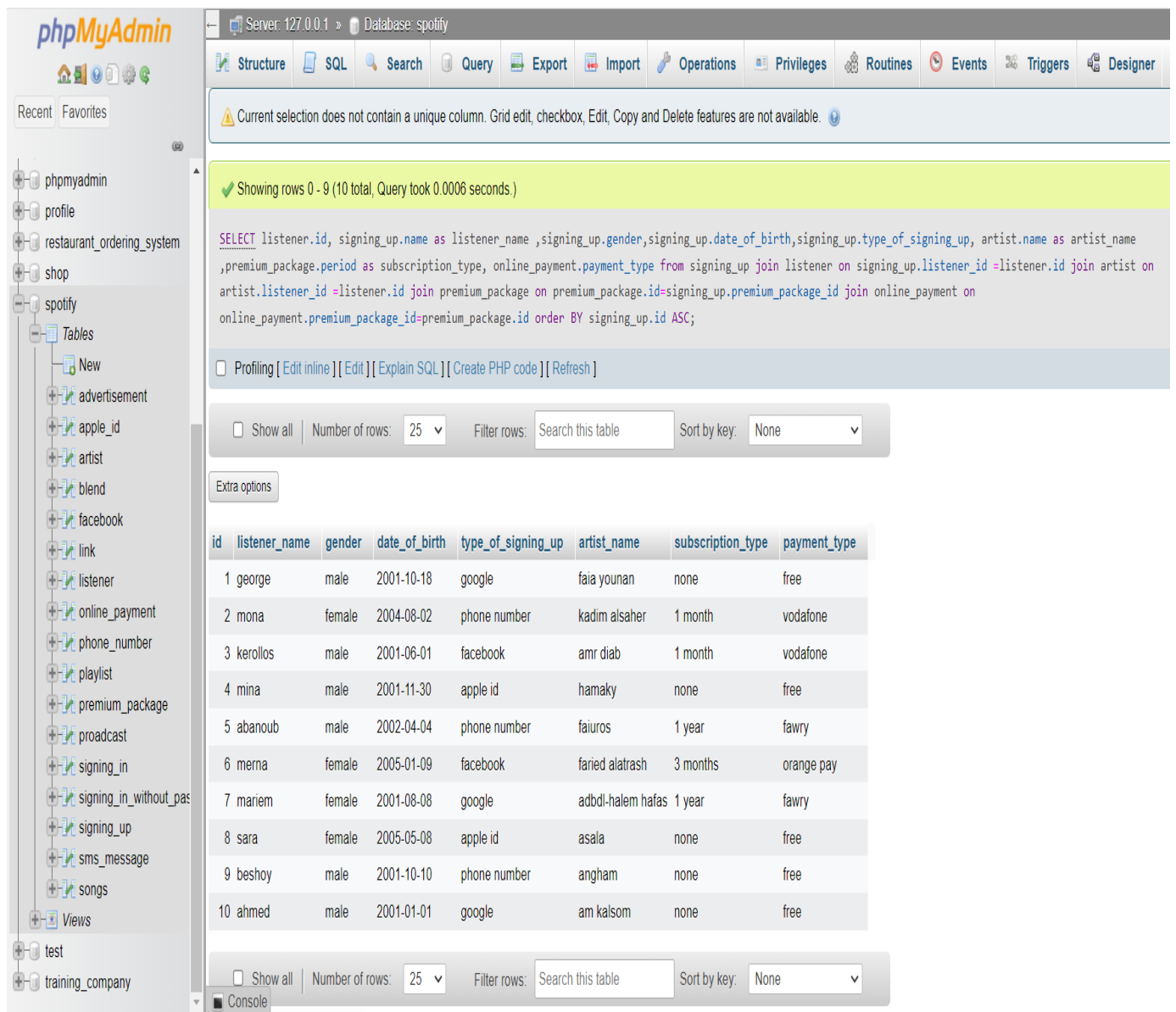


# schema



retrieve date from 5 tables(listener/signing up/artist/premium\_package/online\_payment) to display user signing up info ,artist name who listen it,subscribe to premium package or not and the online payment

**Query:** `SELECT listener.id, signing_up.name as listener_name ,signing_up.gender,signing_up.date_of_birth,signing_up.type_of_signing_up, artist.name as artist_name ,premium_package.period as subscription_type, online_payment.payment_type from signing_up join listener on signing_up.listener_id =listener.id join artist on artist.listener_id =listener.id join premium_package on premium_package.id=signing_up.premium_package_id join online_payment on online_payment.premium_package_id=premium_package.id order BY signing_up.id ASC;`



Server: 127.0.0.1 » Database: spotify

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Designer

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

Showing rows 0 - 9 (10 total, Query took 0.0006 seconds.)

```
SELECT listener.id, signing_up.name as listener_name ,signing_up.gender,signing_up.date_of_birth,signing_up.type_of_signing_up, artist.name as artist_name ,premium_package.period as subscription_type, online_payment.payment_type from signing_up join listener on signing_up.listener_id =listener.id join artist on artist.listener_id =listener.id join premium_package on premium_package.id=signing_up.premium_package_id join online_payment on online_payment.premium_package_id=premium_package.id order BY signing_up.id ASC;
```

☐ 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

id	listener_name	gender	date_of_birth	type_of_signing_up	artist_name	subscription_type	payment_type
1	george	male	2001-10-18	google	faia younan	none	free
2	mona	female	2004-08-02	phone number	kadim alsaher	1 month	vodafone
3	kerollos	male	2001-06-01	facebook	amr diab	1 month	vodafone
4	mina	male	2001-11-30	apple id	hamaky	none	free
5	abanoub	male	2002-04-04	phone number	faiuros	1 year	fawry
6	merna	female	2005-01-09	facebook	faried alatrash	3 months	orange pay
7	mariem	female	2001-08-08	google	adbd-halem hafas	1 year	fawry
8	sara	female	2005-05-08	apple id	asala	none	free
9	bes hoy	male	2001-10-10	phone number	angham	none	free
10	ahmed	male	2001-01-01	google	am kalsom	none	free

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

Console

retrieve data from 4 tables(listener/signing up/artist/songs) to display  
artist name ,songs and listener

Query:SELECT artist.id  
,artist.name,artist.artist\_rank,artist.number\_of\_listeners,artist.promo\_cards,artist.donations,songs.  
name as song\_name,songs.date\_of\_release,songs.song\_album,songs.song\_time ,signing\_up.name  
as listener from artist join songs on artist.id=songs.artist\_id join listener on  
listener.id=artist.listener\_id join signing\_up on signing\_up.listener\_id = listener.id ORDER by artist.id  
ASC;

phpMyAdmin

Server: 127.0.0.1 Database: spotify

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Designer

Recent Favorites

shop

spotify

Tables

New

advertisement

apple\_id

artist

blend

facebook

link

listener

online\_payment

phone\_number

playlist

premium\_package

proadcast

signing\_in

signing\_in\_without\_pas

signing\_up

sms\_message

songs

Views

New

artist\_with\_proadcast\_v

signing\_up\_info\_with\_e

test

training\_company

SELECT artist.id ,artist.name,artist.artist\_rank,artist.number\_of\_listeners,artist.promo\_cards,artist.donations,songs.name as song\_name,songs.date\_of\_release,songs.song\_album,songs.song\_time ,signing\_up.name as listener from artist join songs on artist.id=songs.artist\_id join listener on listener.id=artist.listener\_id join signing\_up on signing\_up.listener\_id = listener.id ORDER by artist.id ASC;

☐ 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

id	name	artist_rank	number_of_listeners	promo_cards	donations	song_name	date_of_release	song_album	song_time	listener
1	faia younan	5	100000	faia-f1	5000	flaytka thlo	2013-05-05	tales of the heart	04:33:00	george
1	faia younan	5	100000	faia-f1	5000	kifna tnaynatna	2013-09-09	tales of the heart	03:45:00	george
1	faia younan	5	100000	faia-f1	5000	yemken nesi	2013-03-03	tales of the heart	04:08:00	george
1	faia younan	5	100000	faia-f1	5000	ya qatily	2013-01-01	tales oh the heart	04:32:00	george
1	faia younan	5	100000	faia-f1	5000	ghanni	2013-07-07	tales of the heart	03:47:00	george
2	kadim alsaher	4	500000	kadim-k1	10000	mahkamah	2010-05-05	none	07:20:00	mona
3	amr diab	4.5	900000	omar-om1	100	tamally maak	2011-05-05	none	03:50:00	kerollos
4	hamaky	4.9	500000	hamaky-h1	9000	ma balash	2013-01-15	none	03:20:00	mina
5	faiuros	5	1000000	faiuros-fai1	90	salimleh alayh	2011-05-05	none	05:45:00	abanoub
5	faiuros	5	1000000	faiuros-fai1	90	kifak inta	2009-05-06	none	03:00:00	abanoub
5	faiuros	5	1000000	faiuros-fai1	90	rajeen ya hawa	2010-09-09	none	04:45:00	abanoub
6	faried alatrash	5.4	100000	faried-far1	1000	alby we mottaho	2002-09-09	none	05:44:00	merma
7	abdel-halem hafas	3.9	50000	abdo-h1	10	ahwak	2001-05-05	none	04:40:00	mariem
8	asala	3.9	100000	asal-a1	200	bent akaber	2020-05-05	none	04:40:00	sara
9	angham	3.5	650000	angham-an1	1000	asameek elketeeera	2019-06-06	none	03:00:00	beshey
10	am kalsom	5.9	10000000	amkalsom-ham1	1	alf leila we leila	2015-05-05	none	41:00:00	ahmed

Console

retrieve data from 4 tables(listener/signing up/artist/proadcast) to display artist name ,proadcast and listener

**Query:**SELECT artist.id ,artist.name as artist\_name,artist.artist\_rank,artist.number\_of\_listeners,artist.promo\_cards,artist.promo\_cards,artist.donations,proadcast.name as proadcast\_name,proadcast.number\_of\_flowers,proadcast.proadcast\_type ,signing\_up.name as listener from artist join proadcast on artist.id =proadcast.artist\_id join listener on listener.id=artist.listener\_id join signing\_up on signing\_up.listener\_id = listener.id;

The screenshot shows the phpMyAdmin interface for a database named 'spotify'. The left sidebar displays a tree view of tables, including 'shop', 'spotify', and 'test'. The main panel shows a SQL query that joins four tables: 'artist', 'proadcast', 'listener', and 'signing\_up'. The query is executed, and the results are displayed in a table with 10 columns: 'id', 'artist\_name', 'artist\_rank', 'number\_of\_listeners', 'promo\_cards', 'promo\_cards', 'donations', 'proadcast\_name', 'number\_of\_flowers', 'proadcast\_type', and 'listener'. The results show 4 rows of data. Below the table, there are options for 'Query results operations' including 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'.

Server: 127.0.0.1 » Database: spotify

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Designer

Recent Favorites

shop

spotify

Tables

New

advertisement

apple\_id

artist

blend

facebook

link

listener

online\_payment

phone\_number

playlist

premium\_package

proadcast

signing\_in

signing\_in\_without\_pas

signing\_up

sms\_message

songs

Views

New

artist\_with\_proadcast\_v

artist\_with\_songs\_with

signing\_up\_info\_with\_e

test

trainino company

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 - 3 (4 total, Query took 0.0003 seconds)

SELECT artist.id ,artist.name as artist\_name,artist.artist\_rank,artist.number\_of\_listeners,artist.promo\_cards,artist.promo\_cards,artist.donations,proadcast.name as proadcast\_name,proadcast.number\_of\_flowers,proadcast.proadcast\_type ,signing\_up.name as listener from artist join proadcast on artist.id =proadcast.artist\_id join listener on listener.id=artist.listener\_id join signing\_up on signing\_up.listener\_id = listener.id;

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

id	artist_name	artist_rank	number_of_listeners	promo_cards	promo_cards	donations	proadcast_name	number_of_flowers	proadcast_type	listener
1	faia younan	5	100000	faia-f1	faia-f1	5000	yala nagani	500000	funny	george
2	kadim alsaher	4	500000	kadim-k1	kadim-k1	10000	agnia	90000	comedy	mona
5	faiuros	5	1000000	faiuros-fai1	faiuros-fai1	90	alhoub	1000000	romantic	abanoub
5	faiuros	5	1000000	faiuros-fai1	faiuros-fai1	90	the past	60000	calm	abanoub

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

retrieve data from 4 tables(listener/signing up/songs/playlist) to display songs ,playlist of song ,playlist creator

**Query:** `SELECT songs.id , songs.name as song_name ,songs.song_time ,playlist.name as playlist_name,signing_up.name as playlist_creator from songs join playlist on songs.playlist_id=playlist.id join listener on listener.id=playlist.listener_id join signing_up on signing_up.listener_id=listener.id ORDER by songs.id;`

The screenshot shows the phpMyAdmin interface for a database named 'spotify'. The 'Table: playlist' is selected. The SQL query is entered in the 'SQL' tab, and the results are displayed in a table below. The query joins the 'songs', 'playlist', 'listener', and 'signing\_up' tables to retrieve song details and the creator's name, ordered by song ID.

id	song_name	song_time	playlist_name	playlist_creator
1	fiaytka thlo	04:33:00	favourite song	george
2	ya qatily	04:32:00	favourite song	george
3	kifna tnaynatna	03:45:00	lovely song	ahmed
4	ghanni	03:47:00	songs	abanoub
5	yemken nesi	04:08:00	calm	beshey
6	sallimleh alayh	05:45:00	favourite song	george
7	rajeen ya hawa	04:45:00	favourite song	george
8	kifak inta	03:00:00	calm	beshey
9	tamally maak	03:50:00	lovely song	ahmed
10	alby we mottaho	05:44:00	calm	beshey
11	mahkamah	07:20:00	songs	abanoub
12	ma balash	03:20:00	favourite song	george
13	ahwak	04:40:00	lovely song	ahmed
14	bent akaber	04:40:00	lovely song	ahmed
15	asameek elkteera	03:00:00	favourite song	george
16	alf leila we leial	41:00:00	calm	beshey



retrieve data from 4 tables(listener/signing up/songs/blend) to display songs ,blend of song ,blend creator

**Query:** `SELECT songs.id , songs.name as song_name ,songs.song_time ,blend.name as blend_name,blend.invited_friends ,signing_up.name as blend_creator from songs join blend on songs.blend_id=blend.id join listener on listener.id=blend.listener_id join signing_up on signing_up.listener_id=listener.id ORDER by songs.id;`

The screenshot shows the phpMyAdmin interface for a database named 'spotify'. The left sidebar displays a tree view of tables and views. The main panel shows a SQL query and its results.

**SQL Query:**

```
SELECT songs.id , songs.name as song_name ,songs.song_time ,blend.name as blend_name,blend.invited_friends ,signing_up.name as blend_creator from songs join blend on songs.blend_id=blend.id join listener on listener.id=blend.listener_id join signing_up on signing_up.listener_id=listener.id ORDER by songs.id;
```

**Results:**

id	song_name	song_time	blend_name	invited_friends	blend_creator
1	flayka thlo	04:33:00	lovely friends	60	mina
2	ya qatily	04:32:00	lovely friends	60	mina
3	kifna tnaynatna	03:45:00	calm friends	10	merna
4	ghanni	03:47:00	lonely friends	5	abanoub
5	yemken nesi	04:08:00	lonely friends	5	abanoub
6	sallimleh alayh	05:45:00	lovely friends	60	mina
7	rajeen ya hawa	04:45:00	speed friends	30	sara
8	kifak inta	03:00:00	lovely friends	60	mina
9	tamally maak	03:50:00	lonely friends	5	abanoub
10	alby we mottaho	05:44:00	calm friends	10	merna
11	mahkamah	07:20:00	calm friends	10	merna
12	ma balash	03:20:00	lovely friends	60	mina
13	ahwak	04:40:00	calm friends	10	merna
14	bent akaber	04:40:00	calm friends	10	merna
15	asameek elketeera	03:00:00	lovely friends	60	mina
16	alf leila we leial	41:00:00	speed friends	30	sara