

# **Факултет Компютърни системи и технологии** ТЕХНИЧЕСКИ УНИВЕРСИТЕТ – СОФИЯ

## КУРСОВА РАБОТА

## по бази от данни

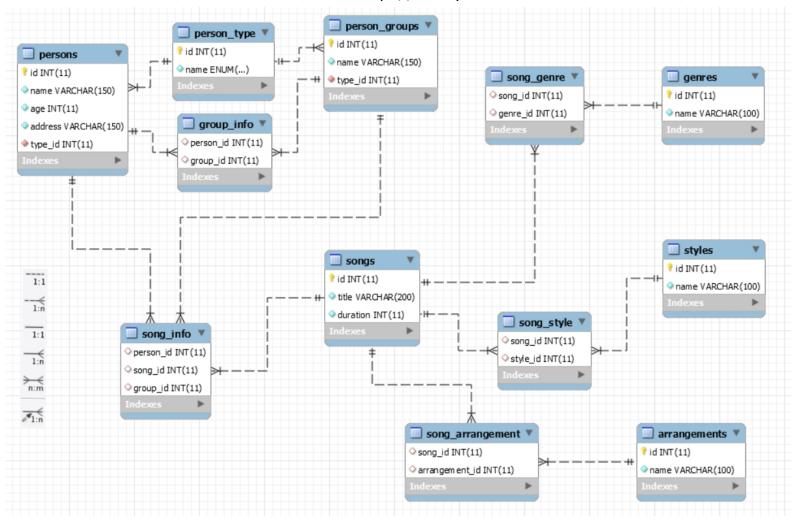
Студент:
ФАК. № Група:
Тема
Напишете база данни за сайт за продажба на песни. Да се пази
основна информация за композитора, изпълнителя и песента – жанр,
стил, аранжимент, продължителност. Една песен може да бъде
·
написана от повече от един композитор и изпълнявана от повече от
един изпълнител.
1. Да се проектира база от данни и да се представи ER диаграма със съответни
CREATE TABLE заявки за средата MySQL.
2. Напишете заявка, в която демонстрирате SELECT с ограничаващо условие по избор.
изоор. 3. Напишете заявка, в която използвате агрегатна функция и GROUP BY по ваш
избор.
4. Напишете заявка, в която демонстрирате INNER и OUTER JOIN по ваш избор.
5. Напишете заявка, в която демонстрирате едновременно JOIN и агрегатна функция.
6. Създайте процедура, в която демонстрирате използване на курсор.
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Вашата работа трябва да включва: задание, ER-диаграма, CREATE TABLE заявки, всички останали заявки, решения на задачите от 2 до 5 и резултатите от тях.
София, Подпис на преподавателя:

Подпис на студента:....

## Решения

За решение на задачата ще използваме езика **MySQL**, който се изучава по време на лабораторните упражнения по дисциплината. За проектирането на базата в задача 1 ще използваме модела **ER**-диаграма (Entity Relationship Diagram).

**Задача 1:** Да се проектира база от данни и да се представи ER диаграма със съответни CREATE TABLE заявки за средата MySQL.



## Създаваме таблица person\_type:

CREATE TABLE person\_type (
id INT AUTO\_INCREMENT PRIMARY KEY,
name ENUM('Composer', 'Artist, 'Group') NOT NULL UNIQUE
);

## Вкарваме примерни данни за person\_type:

```
INSERT INTO person_type (name) VALUES ('Artist'); -- ID = 1
INSERT INTO person_type (name) VALUES ('Composer'); -- ID = 2
INSERT INTO person_type (name) VALUES ('Group'); -- ID = 3
```

## Създаваме таблица persons:

```
CREATE TABLE persons (
id INT AUTO_INCREMENT PRIMARY KEY,
name VARCHAR(150) NOT NULL,
age INT NOT NULL,
address VARCHAR(150) NOT NULL,
type_id INT NOT NULL,
CONSTRAINT FOREIGN KEY (type_id) REFERENCES person_type(id)
);
```

#### Вкарваме примерни данни за persons:

```
/* INSERT заявки за добавяне на изпълнители */
```

```
INSERT INTO persons (name, age, address, type_id) VALUES ('50 Cent', 42, '50 Cent address', 1); -- ID = 1
INSERT INTO persons (name, age, address, type_id) VALUES ('Ice Cube', 48, 'Ice Cube address', 1); -- ID = 2
INSERT INTO persons (name, age, address, type_id) VALUES ('Taylor Swift', 28, 'Taylor Swift address', 1); -- ID = 3
INSERT INTO persons (name, age, address, type_id) VALUES ('Bon Jovi', 35, 'Bon Jovi address', 1); -- ID = 4
INSERT INTO persons (name, age, address, type_id) VALUES ('Eminem', 35, 'Eminem address', 1); -- ID = 5
INSERT INTO persons (name, age, address, type_id) VALUES ('Takeoff', 23, 'Takeoff address', 1); -- ID = 6
INSERT INTO persons (name, age, address, type_id) VALUES ('Offset', 26, 'Offset address', 1); -- ID = 7
INSERT INTO persons (name, age, address, type_id) VALUES ('Quavo', 27, 'Quavo address', 1); -- ID = 8
```

```
/* INSERT заявки за добавяне на композитори */
```

INSERT INTO persons (name, age, address, type\_id) VALUES ('Lars Winther', 38, 'Lars Winther address', 2); -- ID = 9

INSERT INTO persons (name, age, address, type\_id) VALUES ('Jacob Cooper', 28, 'Jacob Cooper address', 2); -- ID = 10 INSERT INTO persons (name, age, address, type\_id) VALUES ('Daniel Hensel', 40, 'Jacob Cooper address', 2); -- ID = 11

id	name	age	address	type_id
1	50 Cent	42	50 Cent address	1
2	Ice Cube	48	Ice Cube address	j 1
3	Taylor Swift	28	Taylor Swift address	1
4	Bon Jovi	35	Bon Jovi address	j 1
5	Eminem	35	Eminem address	1
6	Takeoff	23	Takeoff address	1
7	Offset	26	Offset address	1
8	Quavo	27	Quavo address	1
9	Lars Winther	38	Lars Winther address	2
10	Jacob Cooper	28	Jacob Cooper address	2
11	Daniel Hensel	40	Daniel Hensel address	2

## Създаваме таблица person\_groups:

```
CREATE TABLE person_groups (
id INT AUTO_INCREMENT PRIMARY KEY,
name VARCHAR(150) NOT NULL UNIQUE,
type_id INT NOT NULL,
CONSTRAINT FOREIGN KEY (type_id) REFERENCES person_type(id)
);
```

## Вкарваме примерни данни за person\_groups:

INSERT INTO person\_groups (name, type\_id) VALUES ('Migos', 3); -- ID = 1

```
mysql> SELECT * FROM person_groups;
+---+----+
| id | name | type_id |
+---+----+
| 1 | Migos | 3 |
+---+----+
1 row in set (0.00 sec)
```

## Създаваме таблица group\_info:

```
CREATE TABLE group_info (
person_id INT,
group_id INT,
CONSTRAINT FOREIGN KEY (person_id) REFERENCES persons(id),
CONSTRAINT FOREIGN KEY (group_id) REFERENCES person_groups(id)
);
```

## Вкарваме примерни данни за group\_info:

```
INSERT INTO group_info (person_id, group_id) VALUES (6, 1); INSERT INTO group_info (person_id, group_id) VALUES (7, 1); INSERT INTO group_info (person_id, group_id) VALUES (8, 1);
```

```
mysql> SELECT * FROM group_info;

+-----+

| person_id | group_id |

+----+

| 6 | 1 |

| 7 | 1 |

| 8 | 1 |

+----+

3 rows in set (0.00 sec)
```

## Създаваме таблица songs:

```
CREATE TABLE songs (
id INT AUTO_INCREMENT PRIMARY KEY,
title VARCHAR(200) NOT NULL,
duration INT NOT NULL
);
```

#### Вкарваме примерни данни за songs:

```
INSERT INTO songs (title, duration) VALUES ('Pilot', 182); -- ID = 1
INSERT INTO songs (title, duration) VALUES ('Gangsta Rap Made Me Do It', 350); -- ID = 2
INSERT INTO songs (title, duration) VALUES ('Animal Ambition', 200); -- ID = 3
INSERT INTO songs (title, duration) VALUES ('Im The Man', 351); -- ID = 4
INSERT INTO songs (title, duration) VALUES ('Look What You Made Me Do', 249); -- ID = 5
INSERT INTO songs (title, duration) VALUES ('Its My Life', 220); -- ID = 6
INSERT INTO songs (title, duration) VALUES ('Shake It Off', 300); -- ID = 7
INSERT INTO songs (title, duration) VALUES ('Not Afraid', 290); -- ID = 8
INSERT INTO songs (title, duration) VALUES ('In Your Head', 320); -- ID = 9
INSERT INTO songs (title, duration) VALUES ('Talkin 2 Myself', 400); -- ID = 10
```

```
INSERT INTO songs (title, duration) VALUES ('Trapstar', 140); -- ID = 11 INSERT INTO songs (title, duration) VALUES ('Growth', 180); -- ID = 12 INSERT INTO songs (title, duration) VALUES ('Intruder', 134); -- ID = 13 INSERT INTO songs (title, duration) VALUES ('Slippery', 320); -- ID = 14 INSERT INTO songs (title, duration) VALUES ('Get Right Witcha', 274); -- ID = 15
```

## mysql> SELECT \* FROM songs;

id	title	duration
1	Pilot	182
2	Gangsta Rap Made Me Do It	350
3	Animal Ambition	200
4	Im The Man	351
5	Look What You Made Me Do	249
6	Its My Life	220
7	Shake It Off	300
8	Not Afraid	290
9	In Your Head	320
10	Talkin 2 Myself	400
11	Trapstar	140
12	Growth	180
13	Intruder	134
14	Slippery	320
15	Get Right Witcha	274

15 rows in set (0.00 sec)

## Създаваме таблица song\_info:

```
CREATE TABLE song_info (
person_id INT,
song_id INT,
group_id INT,
CONSTRAINT FOREIGN KEY (person_id) REFERENCES persons(id),
CONSTRAINT FOREIGN KEY (song_id) REFERENCES songs(id),
CONSTRAINT FOREIGN KEY (group_id) REFERENCES person_groups(id)
);
```

## Вкарваме примерни данни за song\_info:

```
/* INSERT заявки за свърване на песен към даден изпълнител | група */
INSERT INTO song_info (person_id, song_id) VALUES (1, 1);
INSERT INTO song_info (person_id, song_id) VALUES (1, 3);
INSERT INTO song_info (person_id, song_id) VALUES (1, 4);
INSERT INTO song_info (person_id, song_id) VALUES (2, 2);
INSERT INTO song_info (person_id, song_id) VALUES (3, 5);
INSERT INTO song_info (person_id, song_id) VALUES (3, 7);
INSERT INTO song_info (person_id, song_id) VALUES (4, 6);
```

```
INSERT INTO song_info (person_id, song_id) VALUES (5, 8);
INSERT INTO song_info (person_id, song_id) VALUES (5, 9);
INSERT INTO song_info (person_id, song_id) VALUES (5, 10);
INSERT INTO song_info (person_id, song_id) VALUES (6, 13);
INSERT INTO song_info (person_id, song_id) VALUES (7, 12);
INSERT INTO song_info (person_id, song_id) VALUES (8, 11);
INSERT INTO song_info (group_id, song_id) VALUES (1, 14);
INSERT INTO song_info (group_id, song_id) VALUES (1, 15);
/* INSERT Заявки за свърване на песен към даден композитор */
INSERT INTO song_info (person_id, song_id) VALUES (9, 5);
INSERT INTO song_info (person_id, song_id) VALUES (9, 7);
INSERT INTO song_info (person_id, song_id) VALUES (10, 6);
```

mysql> SELECT \* FROM song\_info;

++		+
person_id	song_id	group_id
++		++
1	1	NULL
1	3	NULL
1 1	4	NULL
2	2	NULL
3	5	NULL
3	7	NULL
4	6	NULL
5	8	NULL
5	9	NULL
5	10	NULL
6	13	NULL
7	12	NULL
8	11	NULL
NULL	14	1
NULL	15	1
9	5	NULL
9	7	NULL
10	6	NULL
++		

18 rows in set (0.00 sec)

## Създаваме таблица arrangements:

CREATE TABLE arrangements (
id INT AUTO\_INCREMENT PRIMARY KEY,
name VARCHAR(100) NOT NULL UNIQUE
);

#### Вкарваме примерни данни за arrangements:

INSERT INTO arrangements (name) VALUES ('Electronic'); -- ID = 1 INSERT INTO arrangements (name) VALUES ('Jazz'); -- ID = 2

## Създаваме таблица song\_arrangement:

```
CREATE TABLE song_arrangement (
song_id INT,
arrangement_id INT,
CONSTRAINT FOREIGN KEY (song_id) REFERENCES songs(id),
CONSTRAINT FOREIGN KEY (arrangement_id) REFERENCES arrangements(id)
);
```

## Вкарваме примерни данни за song\_arrangement:

```
INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (1, 1); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (2, 1); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (3, 1); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (4, 1); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (5, 2); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (6, 2); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (7, 2); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (8, 1); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (9, 1); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (10, 1); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (11, 1); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (12, 1); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (13, 1); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (14, 1); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (14, 1); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (13, 1); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (15, 1); INSERT INTO song_arrangement (song_id, arrangement_id) VALUES (15,
```

```
mysql> SELECT * FROM song_arrangement;
 song_id | arrangement_id |
        2
                         1 |
        3
        4
                         2
        5
                         2
        6
       7 |
        8
                         1
        9
                         1
       10 I
       11
                         1
       12 l
       13 l
       14
       15 l
15 rows in set (0.00 sec)
```

## Създаваме таблица genres:

CREATE TABLE genres (
id INT AUTO\_INCREMENT PRIMARY KEY,
name VARCHAR(100) NOT NULL UNIQUE
);

## Вкарваме примерни данни за genres:

```
INSERT INTO genres (name) VALUES ('Hip-Hop'); -- ID = 1 INSERT INTO genres (name) VALUES('Pop'); -- ID = 2 INSERT INTO genres (name) VALUES ('Rock'); -- ID = 3
```

## Създаваме таблица song\_genre:

```
CREATE TABLE song_genre (
song_id INT,
genre_id INT,
CONSTRAINT FOREIGN KEY (song_id) REFERENCES songs(id),
CONSTRAINT FOREIGN KEY (genre_id) REFERENCES genres(id)
);
```

#### Вкарваме примерни данни за song\_genre:

```
INSERT INTO song_genre (song_id, genre_id) VALUES (1, 1); INSERT INTO song_genre (song_id, genre_id) VALUES (2, 1); INSERT INTO song_genre (song_id, genre_id) VALUES (3, 1); INSERT INTO song_genre (song_id, genre_id) VALUES (4, 1); INSERT INTO song_genre (song_id, genre_id) VALUES (5, 2); INSERT INTO song_genre (song_id, genre_id) VALUES (6, 3); INSERT INTO song_genre (song_id, genre_id) VALUES (7, 2); INSERT INTO song_genre (song_id, genre_id) VALUES (8, 1); INSERT INTO song_genre (song_id, genre_id) VALUES (9, 1); INSERT INTO song_genre (song_id, genre_id) VALUES (10, 1); INSERT INTO song_genre (song_id, genre_id) VALUES (11, 1); INSERT INTO song_genre (song_id, genre_id) VALUES (12, 1); INSERT INTO song_genre (song_id, genre_id) VALUES (13, 1); INSERT INTO song_genre (song_id, genre_id) VALUES (14, 1); INSERT INTO song_genre (song_id, genre_id) VALUES (14, 1); INSERT INTO song_genre (song_id, genre_id) VALUES (15, 1); INSERT INTO song_genre (song_id, genre_id) VALUES (15, 1);
```

```
mysql> SELECT * FROM song genre;
+-----+
| song_id | genre_id |
+-----+
       1 |
       2
                1 |
       3
                1 I
       4
                1 |
       5 I
                2
       6
                3 I
       7
                2
       8
                1
      9
                1 |
                1 |
      10 I
                1 |
      11 l
      12
                1 |
                1 |
      13 l
      14 l
                1
      15
15 rows in set (0.00 sec)
```

## Създаваме таблица styles:

```
CREATE TABLE styles (
id INT AUTO_INCREMENT PRIMARY KEY,
name VARCHAR(100) NOT NULL UNIQUE
);
```

## Вкарваме примерни данни за styles:

```
INSERT INTO styles (name) VALUES ('Dance'); -- ID = 1
INSERT INTO styles (name) VALUES('Sad'); -- ID = 2
INSERT INTO styles (name) VALUES('Funky'); -- ID = 3
INSERT INTO styles (name) VALUES('Deep'); -- ID = 4
```

```
mysql> SELECT * FROM styles;
+---+---+
| id | name |
+---+----+
| 1 | Dance |
| 4 | Deep |
| 3 | Funky |
| 2 | Sad |
+---+-----+
4 rows in set (0.00 sec)
```

## Създаваме таблица song\_style:

```
CREATE TABLE song_style (
song_id INT,
style_id INT,
CONSTRAINT FOREIGN KEY (song_id) REFERENCES songs(id),
CONSTRAINT FOREIGN KEY (style_id) REFERENCES styles(id)
);
```

## Вкарваме примерни данни за song\_style:

```
INSERT INTO song_style (song_id, style_id) VALUES (1, 1); INSERT INTO song_style (song_id, style_id) VALUES (2, 4); INSERT INTO song_style (song_id, style_id) VALUES (3, 1); INSERT INTO song_style (song_id, style_id) VALUES (4, 4); INSERT INTO song_style (song_id, style_id) VALUES (5, 1); INSERT INTO song_style (song_id, style_id) VALUES (6, 1); INSERT INTO song_style (song_id, style_id) VALUES (7, 3); INSERT INTO song_style (song_id, style_id) VALUES (8, 4); INSERT INTO song_style (song_id, style_id) VALUES (9, 4); INSERT INTO song_style (song_id, style_id) VALUES (10, 4); INSERT INTO song_style (song_id, style_id) VALUES (11, 1); INSERT INTO song_style (song_id, style_id) VALUES (12, 1); INSERT INTO song_style (song_id, style_id) VALUES (12, 1); INSERT INTO song_style (song_id, style_id) VALUES (13, 1);
```

INSERT INTO song\_style (song\_id, style\_id) VALUES (14, 3); INSERT INTO song\_style (song\_id, style\_id) VALUES (15, 1);

```
mysql> SELECT * FROM song_style;
 song_id | style_id |
       1
                1
       2
                4
       3 |
                1
       4
                4
       5
                1 |
       6
                1 |
       7
                3
       8
                4
      9
                4
      10
                4
      11
                1
      12
                1 |
      13
                1
      14
                3
      15
                1 l
15 rows in set (0.00 sec)
```

**Задача 2:** Заявката извежда имената на песните, продължителността им и годините на изпълнителя. Ограничаващото условие е изпълнителя да е с име "Eminem".

SELECT persons.name AS Artist, persons.age AS Age, songs.title AS Song, songs.duration AS Duration FROM persons

+	Artist	++   Age	Song	++   Duration
		35	In Your Head Not Afraid Talkin 2 Myself	320   290   400
3	3 rows in set (0.00 sec)			

**Задача 3:** Заявката извежда имената на изпълнителите/групите, броя на песните на всеки един от тях и сумира продължителността им, ако броя на песните им е повече от една. Резултатите са групирани по имена на изпълнител/група и са подредени по максимален брой песни.

```
SELECT persons.name AS Artist, COUNT(songs.id) AS Songs, SUM(songs.duration) AS total_duration
FROM persons
JOIN songs ON persons.id IN (
      SELECT person id
      FROM song info
      WHERE song_id = songs.id)
WHERE persons.type id = 1
GROUP by persons.name
HAVING songs > 1
UNION
SELECT person_groups.name AS Artist, COUNT(songs.id) AS Songs, SUM(songs.duration) AS
total duration
FROM person_groups
JOIN songs ON person_groups.id IN (
      SELECT group_id
      FROM group info
      WHERE group_id IN (
             SELECT group_id
             FROM song info
             WHERE song id = songs.id))
GROUP by person_groups.name
HAVING songs > 1
ORDER BY songs DESC;
                           Songs | total_duration
    Eminem
                                  3
                                                        1010
   50 Cent
                                  3
                                                         733
    Taylor Swift
                                 2
                                                         549
                                  2
   Migos
```

rows in set (0.00 sec)

## **Задача 4:** Заявката извежда имена на артистите, композиторите и имената на песните, които те изпълняват/композират.

/\* FOURTH TASK - INNER JOIN \*/

ORDER BY person\_type.name DESC;

SELECT persons.name AS person\_name, person\_type.name AS type, songs.title AS songTitle FROM persons
INNER JOIN song\_info ON persons.id = song\_info.person\_id
INNER JOIN songs ON song\_info.song\_id = songs.id
INNER JOIN person\_type ON persons.type\_id = person\_type.id

person_name	type	songTitle
50 Cent 50 Cent 50 Cent Ice Cube Taylor Swift Taylor Swift Bon Jovi Eminem Eminem Takeoff Offset Quavo Lars Winther Jacob Cooper	Artist Composer Composer	Pilot Animal Ambition Im The Man Gangsta Rap Made Me Do It Look What You Made Me Do Shake It Off Its My Life Not Afraid In Your Head Talkin 2 Myself Intruder Growth Trapstar Look What You Made Me Do Shake It Off Its My Life

/\* FOURTH TASK - LEFT OUTER JOIN \*/

SELECT persons.name AS person\_name, person\_type.name AS type, songs.title AS song\_title FROM persons

LEFT JOIN songs ON persons.id IN (

SELECT person\_id

FROM song\_info

WHERE song\_id = songs.id)

JOIN person\_type ON persons.type\_id = person\_type.id;

person_name	type	song_title
Lars Winther Lars Winther Jacob Cooper Daniel Hensel 50 Cent 50 Cent Ice Cube Taylor Swift Taylor Swift Bon Jovi Eminem Eminem Takeoff Offset	Composer Composer Composer Composer Artist	Look What You Made Me Do Shake It Off Its My Life NULL Pilot Animal Ambition Im The Man Gangsta Rap Made Me Do It Look What You Made Me Do Shake It Off Its My Life Not Afraid In Your Head Talkin 2 Myself Intruder Growth Trapstar

17 rows in set (0.00 sec)

**Задача 5:** Заявката извежда име на композитор и брой песни, които е композирал.

```
/* FIFTH TASK */
SELECT persons.name AS Composer, Count(songs.id) AS songs
FROM persons
LEFT JOIN song_info ON persons.id = song_info.person_id
LEFT JOIN songs ON song_info.song_id = songs.id
JOIN person_type ON persons.type_id = person_type.id
WHERE persons.type_id = 2
GROUP BY persons.name;
```

**Задача 6:** В процедурата декларираме променливи. След това и курсорът, който взима име на изпълнител/композитор/група, име на песен и нейната продължителност. След това се създава празна таблица, в която пазим резултата. Итерираме през данните от курсора и ги записваме във временната таблица. При последната итерация запазваме състоянието на цикъла в таблицата. Взимаме информацията от временната таблица и я изтриваме.

```
/* SIX TASK */
-- USE song_seller;
DROP PROCEDURE IF EXISTS CursorTask;
DELIMITER |
CREATE PROCEDURE CursorTask()
BEGIN
DECLARE finished INT;
DECLARE lastId INT;
DECLARE tempArtistName VARCHAR(200);
DECLARE tempType VARCHAR(200);
DECLARE tempSongName VARCHAR(200);
DECLARE tempSongDuration INT;
DECLARE SongsCursor CURSOR FOR
SELECT persons.name AS Name, person_type.name AS type, songs.title AS title, songs.duration AS
song_duration
FROM persons
JOIN songs ON persons.id IN (
       SELECT person id
       FROM song info
       WHERE song id = songs.id)
JOIN person type ON persons.id
WHERE person type.id = persons.type id
UNION
SELECT person_groups.name AS Name, person_type.name AS type, songs.title AS title,
songs.duration AS song_duration
FROM person_groups
JOIN songs ON person_groups.id IN (
       SELECT group id
       FROM group info
       WHERE group id IN (
              SELECT group id
              FROM song info
              WHERE song_id = songs.id))
JOIN person type ON person groups.type id
WHERE person_type.id = person_groups.type_id;
DECLARE CONTINUE handler FOR NOT FOUND SET finished = 1;
SET finished = 0;
set lastId = 0;
DROP TABLE IF EXISTS tempSongsInfo;
CREATE TEMPORARY TABLE tempSongsInfo(
```

```
name VARCHAR(200),
      person_type VARCHAR(100),
      songTitle VARCHAR(200),
      songDuration INT,
      finishStatus INT NULL DEFAULT 0
) ENGINE = Memory;
OPEN SongsCursor;
songs loop: WHILE (finished = 0)
DO
FETCH SongsCursor INTO tempArtistName, tempType, tempSongName, tempSongDuration;
      IF (finished = 1)
THEN
      LEAVE songs_loop;
      END IF;
SET lastId = lastId + 1;
INSERT INTO tempSongsInfo VALUES (lastId, tempArtistName, tempType, tempSongName,
tempSongDuration, 0);
END WHILE;
CLOSE SongsCursor;
SET finished = 0;
UPDATE tempSongsInfo SET finishStatus = 1 WHERE id = lastId;
SELECT * FROM tempSongsInfo;
DROP TABLE tempSongsInfo;
END
DELIMITER;
CALL CursorTask();
mysql> CALL CursorTask();
1 | Lars Winther | Composer | Look What You Made Me Do | 249 | 2 | Lars Winther | Composer | Shake It Off | 300 | 3 | Jacob Cooper | Composer | Its My Life | 220 |
                                                                                    0
                                                                                    0
  4 | 50 Cent | Solo Artist | Pilot
5 | 50 Cent | Solo Artist | Animal Ambition
                                                                   182
                                                                                     0
                                                                   200
  6 | 50 Cent | Solo Artist | Im The Man | 7 | Ice Cube | Solo Artist | Gangsta Rap Made Me Do It |
                                                                                     0
                                                                    351
                                                                                     0
                                                                   350
  8 | Taylor Swift | Solo Artist | Look What You Made Me Do |
                                                                    249
                                                                                     0
  9 | Taylor Swift | Solo Artist | Shake It Off
                                                                    300
                                                                                     0
| 10 | Bon Jovi | Solo Artist | Its My Life
                                                                     220
                                                                                     0
290
                                                                                     0
                                                                     320
                                                                                     0
                                                                     400
                                                                                     0
                                                                     134
                                                                                     0
                                                                     180
                                                                                     0
                                                                     140
                                                                                     0
                                                                     320
                                                                                     0
                                                                     274
18 rows in set (0.01 sec)
```

Query OK, 0 rows affected (0.28 sec) s:1 Ln:1 Col:1 Sel:0|0 Windows (CR LF) UTF-8

id INT PRIMARY KEY AUTO INCREMENT,