

سوالات:

۱- آهنگ های برتر کدامند؟

```
select Song_name from music where music.MNumber in(select MNumber from Playlist natural join Playlist_musics where Playlist.Name="hit");
```

```
+-----+
| Song_name |
+-----+
| Bad habits |
| Lose you to love me |
| Easy on me |
+-----+
3 rows in set (0.02 sec)
```

۲- آهنگ های یک ژانر خاص کدامند؟

```
select Song_name from music where music.Genre like "%pop%";
```

```
+-----+
| Song_name |
+-----+
| De una vez |
| Rare |
| Bad habits |
| There you are |
| Dance again |
| Look at her now |
| Lose you to love me |
| Vulnerable |
| Souvenir |
| She |
| Boyfriend |
| Easy on me |
+-----+
12 rows in set (0.01 sec)
```

۳- پلی لیست های من؟

```
select Name from playlist where Playlist.PNumber in(select PNumber from User natural join User_Playlists where User.username="dawn");
```

select Name from playlist natural join User_Playlists where userId=1;

```
+-----+
| Name |
+-----+
| favourite |
| dance |
| sad |
| hit |
| most-played |
| recently-played |
+-----+
6 rows in set (0.00 sec)
```

۴- این آهنگ متعلق به چه آلبومی است؟

select Name from music, album where music.ANumber=album.ANumber and Song_name="De una vez";

select name from album inner join music on album.ANumber=music.ANumber and Song_name="Boyfriend";

```
+-----+
| name |
+-----+
| Rare |
+-----+
1 row in set (0.01 sec)
```

۵- این آهنگ متعلق به چه خواننده ای است؟

select Username from User, Singer where User.UserId=Singer.UserId and Singer.SingerId=(select SingerId from music where Song_name="Selfish love");

```
+-----+
| Username |
+-----+
| selenagomez |
+-----+
1 row in set (0.01 sec)
```

۶- تعداد لایک های هر آهنگ؟

select Song_name, count(LNumber) from music natural join likes group by MNumber;

| Song_name | count(LNumber) |
|---------------------|----------------|
| Selfish love | 2 |
| De una vez | 1 |
| Willow | 1 |
| Marjorie | 1 |
| Coney Island | 1 |
| Lose you to love me | 2 |
| Souvenir | 1 |
| Boyfriend | 1 |

8 rows in set (0.00 sec)

۷- تعداد لایک های هر اهنگ از بیشتر به کمتر؟

select Song_name, count(LNumber) as Likes from music natural join likes group by MNumber order by Likes desc;

| Song_name | Likes |
|---------------------|-------|
| Selfish love | 2 |
| Lose you to love me | 2 |
| De una vez | 1 |
| Willow | 1 |
| Marjorie | 1 |
| Coney Island | 1 |
| Souvenir | 1 |
| Boyfriend | 1 |

8 rows in set (0.01 sec)

۸- تعداد ترک های این البوم؟

select count(Song_name) from music, album where music.ANumber=Album.ANumber and Name="Rare";

| count(Song_name) |
|------------------|
| 8 |

1 row in set (0.01 sec)

۹- ژانر آهنگ چیست؟

```
select Genre from Music where Song_name="Coney Island";
```

```
+-----+
| Genre |
+-----+
| Alternative rock |
+-----+
1 row in set (0.00 sec)
```

۱۰- آهنگ چقدر لایک خورده و چه کسانی لایکش کرده اند؟

۱۱- نظرات بقیه راجب این آهنگ چیست؟

```
select Username, Text from comment, music, user where
comment.MNumber=music.MNumber and comment.UserId=user.UserId and
Song_name="Selfish love";
```

```
+-----+-----+
| Username | Text |
+-----+-----+
| dawn | It?s perfect |
| Taylorswift | well done girl |
| Betty | the whole album is great |
| Selenagomez | thank you all |
| Selenagomez | I love you too <3 |
+-----+-----+
5 rows in set (0.00 sec)
```

۱۲- چه کسانی این کاربر را دنبال می کنند؟

```
select Username from user inner join follow on
user.UserId=follow.UserId_following where UserId_followed=2;
```

```
+-----+
| Username |
+-----+
| dawn |
| Taylorswift |
+-----+
2 rows in set (0.01 sec)
```

۱۳- همه آهنگ ها و کامنت ها(حتی اگر آهنگی کامنت ندارد)؟

select Song_name, Text from music left outer join comment on
music.MNumber=comment.MNumber;

| Song_name | Text |
|---------------------|---|
| Selfish love | It?s perfect |
| Selfish love | well done girl |
| Selfish love | the whole album is great |
| Selfish love | thank you all |
| Selfish love | I love you too <3 |
| De una vez | seriously, de una vez por toda soy mas forte sola |
| willow | NULL |
| Marjorie | so sad :(|
| Coney Island | NULL |
| Rare | NULL |
| Bad habits | I can?t stop listening to it |
| There you are | NULL |
| Dance again | NULL |
| Look at her now | NULL |
| Lose you to love me | NULL |
| Vulnerable | NULL |
| Souvenir | If I had to choose a song to only listen to it for the rest of my life, I would choose souvenir |
| She | NULL |
| Boyfriend | I love this song |
| Easy on me | NULL |

20 rows in set (0.00 sec)

۱۴- همه کاربرانی که سنشون از بعضی های دیگه بیشتره؟(فقط برای اینکه از some استفاده بشه)

select Username from user where age > some(select age from user);

| Username |
|--------------|
| Selenagomez |
| Taylorswift |
| zayn |
| katyperry |
| edsheeran |
| DJSnake |
| Betty |
| LanaDelRey |
| Halsey |
| ArianaGrande |
| Adele |
| HarryStyles |
| BennyBlanco |

13 rows in set (0.00 sec)

۱۵- همه اهنگ هایی که تعداد لایک های ان از همه اهنگ های یک خواننده بیشتر است؟(برای استفاده از
(all

select Song_name, count(LNumber) as l from likes, music where
likes.MNumber=music.MNumber group by likes.MNumber having l>all(select
count(LNumber) from likes, music where likes.MNumber=music.MNumber and
SingerId=2 group by likes.MNumber);

```
+-----+-----+
| Song_name | 1 |
+-----+-----+
| Selfish love | 3 |
| Lose you to love me | 2 |
+-----+-----+
2 rows in set (0.00 sec)
```