

Atskaite

1. Pointers

1) C#

Programma:

```
class Agent
{
    public string name = "";
}

static void Main(string[] args)
{
    var agent_1 = new Agent(); // Agent* agent_1 = new Agent();
    agent_1.name = "a";

    var agent_2 = new Agent(); // Agent* agent_2 = new Agent();
    agent_2.name = "b";

    agent_1 = agent_2;
    agent_2.name = "c";
    Console.WriteLine(agent_1.name + agent_2.name);
}
```

Tiks izvadīts rezultāts cc, jo dati atrodas stack atmiņā un abi norāda uz vienu un to pašu objektu heapā

Divas programmas:

1) Šeit tiks izvadīts 3, jo tiek lietots value type

```
int x = 3;
int y = x
y = 4;
Console.WriteLine(x);
```

2) Šeit tiks izvadīts 4, tāpēc, ka tiek lietots reference type un tiek izmantoti rādītāji, kas norāda uz vienu un to pašu objektu

```

class MyInt
{
    public int MyValue;
}

MyInt x = new MyInt();
x.MyValue = 3;
MyInt y = new MyInt();
y = x;
y.MyValue = 4;
Console.WriteLine (x.MyValue);

```

2. SQL

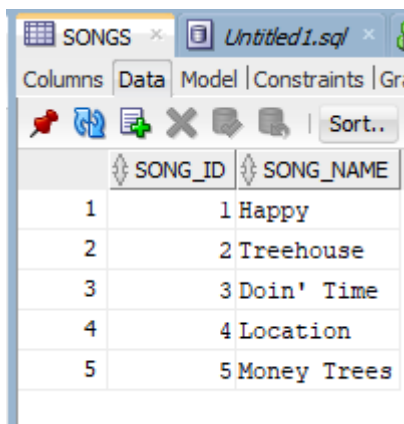


Table: SONGS

SONG_ID	SONG_NAME
1	Happy
2	Treehouse
3	Doin' Time
4	Location
5	Money Trees

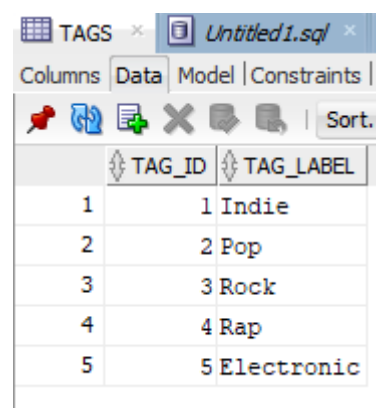


Table: TAGS

TAG_ID	TAG_LABEL
1	Indie
2	Pop
3	Rock
4	Rap
5	Electronic

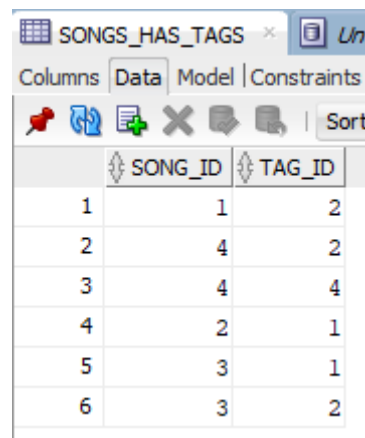


Table: SONGS_HAS_TAGS

SONG_ID	TAG_ID
1	1
2	4
3	4
4	2
5	3
6	3





Tiek izvadītas visas dziesmas, kuras atzīmētas ar tag “Pop” žanrs

Worksheet

Query Builder

```
select c.tag_label as TAG,s.song_name as SONG
from TAGS c
    inner join SONGS_HAS_TAGS sc on (sc.tag_id = c.tag_id)
    inner join Songs s on (s.song_id = sc.song_id)
where
    (c.tag_label = 'Pop');
```

▶ Query Result x



SQL | All Rows Fetched: 3 in 0,018 seconds

	↕ TAG	↕ SONG
1	Pop	Happy
2	Pop	Doin' Time
3	Pop	Location