

Отчет к ДЗ по теме «Работа с джоинами и агрегациями»

Используя изученные материалы, построить запросы, отвечающие на следующие задачи:

Примечание: LIMIT 15 выбран просто в целях что бы в скриншот влез результат.

1. Найти жанры для каждого фильма.

Примечание: Смуцает немного для «КАЖДОГО». Получается что те, которые НЕ имеют жанра тоже должны быть в выборке (поэтому LEFT)

```
NB-R911LJCT.o3.ru :) select m.name, groupArray(g.genre) from imdb.movies m left join imdb.genres g on m.id = g.movie_id group by m.name limit 15;
```

```
SELECT
  m.name,
  groupArray(g.genre)
FROM  imdb.movies AS m
LEFT JOIN  imdb.genres AS g ON m.id = g.movie_id
GROUP BY m.name
LIMIT 15
```

Query id: 7eae2d36-8067-4598-a594-50a9359e27f6

	name	groupArray(genre)
1.	Ogostos	['Drama']
2.	Gumiho	['Fantasy', 'Romance']
3.	Aphone	['Short']
4.	Cascadia	['Crime']
5.	Mit Herz	['']
6.	Gengas	['Short']
7.	Nehir	['Adventure', 'Crime', 'Thriller']
8.	Killer	['Short', 'Drama', 'Thriller']
9.	23 Hours	['Action', 'Thriller']
10.	Serrana	['Musical', 'Short']
11.	Galate	['Short']
12.	Exchange	['Short']
13.	Chitthi	['', '']
14.	Ola, La	['']
15.	Idhayam	['']

15 rows in set. Elapsed: 0.082 sec. Processed 783.39 thousand rows, 19.95 MB (9.55 million rows/s., 243.11 MB/s.)
Peak memory usage: 147.38 MiB.

2. Запросить все фильмы, у которых нет жанра

```
NB-R911LJCT.o3.ru :) select name from imdb.movies m left anti join imdb.genres g on m.id = g.movie_id limit 15;
```

```
SELECT name
FROM  imdb.movies AS m
ANTI LEFT JOIN  imdb.genres AS g ON m.id = g.movie_id
LIMIT 15
```

Query id: 184e6ad8-f4f0-4e06-9cb0-d86787745f42

	name
1.	Botschaft
2.	Botte i farten
3.	Bottom Land
4.	Botn de fuego, El
5.	Botts sajt krsre
6.	Bouffon, Le
7.	Bought & Sold
8.	Bouka
9.	Bouncer, The
10.	Bound and Determined
11.	Bound for Home
12.	Bouquetire des innocents, La
13.	Bourrier, Le
14.	Boustaguy, al-
15.	Bout d'essai

15 rows in set. Elapsed: 0.028 sec. Processed 783.39 thousand rows, 13.87 MB (27.79 million rows/s., 491.95 MB/s.)
Peak memory usage: 17.89 MiB.

NB-R911LJCT.o3.ru :)

3. Объединить каждую строку из таблицы “Фильмы” с каждой строкой из таблицы “Жанры”

```
NB-R911LJCT.o3.ru :) select * from imdb.movies m full join imdb.genres g on m.id = g.movie_id limit 15;
```

```
SELECT *
FROM imdb.movies AS m
FULL OUTER JOIN imdb.genres AS g ON m.id = g.movie_id
LIMIT 15
```

Query id: 7c173ab1-8d06-43fa-93b1-5c56a2d98e1a

	id	name	year	rank	movie_id	genre
1.	250742	Patriot, The	1917	0	250742	War
2.	250743	Patriot, The	1928	6.6	250743	Drama
3.	250744	Patriot, The	1986	3.1	250744	Action
4.	250745	Patriot, The (1998/I)	1998	4.1	250745	Action
5.	250745	Patriot, The (1998/I)	1998	4.1	250745	Thriller
6.	250746	Patriot, The	2000	6.8	250746	Action
7.	250746	Patriot, The	2000	6.8	250746	Drama
8.	250746	Patriot, The	2000	6.8	250746	War
9.	250748	Patriote, Le	1938	0	250748	Drama
10.	250750	Patrioten	2005	0	250750	Drama
11.	250751	Patrioterne	1997	0	250751	Documentary
12.	250752	Patriotes, Les	1994	6.8	250752	Thriller
13.	250753	Patriotic	2000	0	250753	Short
14.	250756	Patriotic Pooches	1942	0	250756	Animation
15.	250756	Patriotic Pooches	1942	0	250756	Short

15 rows in set. Elapsed: 0.080 sec. Processed 783.39 thousand rows, 23.06 MB (9.76 million rows/s., 287.31 MB/s.)
Peak memory usage: 92.76 MiB.

4. Найти жанры для каждого фильма, НЕ используя INNER JOIN

Примечание: Сомнения, так как запрос с LEFT уже использовался. Но если по «букве» задания это же не INNER?

```
NB-R911LJCT.o3.ru :) select m.name, groupArray(g.genre) from imdb.movies m left join imdb.genres g on m.id = g.movie_id group by m.name limit 15;
```

```
SELECT
  m.name,
  groupArray(g.genre)
FROM imdb.movies AS m
LEFT JOIN imdb.genres AS g ON m.id = g.movie_id
GROUP BY m.name
LIMIT 15
```

Query id: 7eae2d36-8067-4598-a594-50a9359e27f6

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Peak memory usage: 147.38 MiB.

5. Найти всех актеров и актрис, снявшихся в фильме в 2023 году

Примечание: Нет ни одного фильма, который вышел в 2023 году. Поэтому для примера взял 2002

```
NB-R911LJCT.o3.ru :) select first_name, last_name from imdb.actors a join (select actor_id from imdb.roles where movie_id in (select id from imdb.movies where year = 2023)) m_id on a.id = m_id.actor_id limit 15;
```

```
SELECT
  first_name,
  last_name
FROM imdb.actors AS a
INNER JOIN
(
  SELECT actor_id
  FROM imdb.roles
  WHERE movie_id IN (
    SELECT id
    FROM imdb.movies
    WHERE year = 2023
  )
) AS m_id ON a.id = m_id.actor_id
LIMIT 15
```

Query id: 8e262a8c-3ed9-46a3-be96-484984d1d330

Ok.

0 rows in set. Elapsed: 0.014 sec. Processed 806.06 thousand rows, 16.24 MB (58.12 million rows/s., 1.17 GB/s.)
Peak memory usage: 12.36 MiB.

```
NB-R911LJCT.o3.ru :) select first_name, last_name from imdb.actors a join (select actor_id from imdb.roles where movie_id in (select id from imdb.movies where year = 2002)) m_id on a.id = m_id.actor_id limit 15;
```

```
SELECT
  first_name,
  WHERE movie_id IN (
    SELECT id
    FROM imdb.movies
    WHERE year = 2002
  )
) AS m_id ON a.id = m_id.actor_id
LIMIT 15
```

Query id: 3cddb1e5-7442-47e1-aced-80b6f52d3c39

	first_name	last_name
1.	Oswald	'0'
2.	Oswald	'0'
3.	Oswald	'0'
4.	Rappin'	4-Tay
5.	Mick	5
6.	Ott	Aardam
7.	Hank	Aaron
8.	Travis	Aaron
9.	Sjors	Aarts
10.	Gali	Abajdulov
11.	Paul Vito	Abato
12.	Alex	Abbad
13.	David (VII)	Abbott
14.	Lousnak	Abdalian
15.	Tarik	Abdel-Monem

6. Запросить все фильмы, у которых нет жанра, через ANTI JOIN

```
NB-R911LJCT.o3.ru :) select name from imdb.movies m left anti join imdb.genres g on m.id = g.movie_id limit 15;
```

```
SELECT name
FROM imdb.movies AS m
ANTI LEFT JOIN imdb.genres AS g ON m.id = g.movie_id
LIMIT 15
```

Query id: 184e6ad8-f4f0-4e06-9cb0-d86787745f42

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