

SQL Joining Tables

1.

```
SELECT      c.first_name,  
              c.last_name,  
              p.payment_date,  
              p.amount  
FROM customer c INNER JOIN payment p ON c.customer_id = p.customer_id  
ORDER BY c.first_name
```

Izoh: customer va payment jadvalarini qoshib qaysi mijoz qancha tolov qilganini chiqaradigan query

	A-Z first_name	A-Z last_name	payment_date	amount
1	Aaron	Selby	2007-03-18 17:39:18.996	0.99
2	Aaron	Selby	2007-03-01 14:13:17.996	0.99
3	Aaron	Selby	2007-03-01 12:39:35.996	1.99
4	Aaron	Selby	2007-03-01 01:45:17.996	0.99
5	Aaron	Selby	2007-02-15 20:26:33.996	5.99
6	Aaron	Selby	2007-02-15 15:07:19.996	2.99
7	Aaron	Selby	2007-02-18 02:40:59.996	4.99
8	Aaron	Selby	2007-03-17 21:49:11.996	9.99
9	Aaron	Selby	2007-04-29 23:35:29.996	2.99
10	Aaron	Selby	2007-04-28 08:16:50.996	4.99
11	Aaron	Selby	2007-04-09 21:52:23.996	2.99
12	Aaron	Selby	2007-03-20 12:46:42.996	4.99
13	Aaron	Selby	2007-03-02 03:34:43.996	5.99
14	Aaron	Selby	2007-03-22 06:43:47.996	2.99
15	Aaron	Selby	2007-03-02 02:16:21.996	6.99
16	Aaron	Selby	2007-03-01 22:40:05.996	5.99

```

2.SELECT    f.title,
           r.rental_date
FROM film f LEFT JOIN inventory i ON f.film_id = i.film_id LEFT JOIN rental r ON i.inventory_id =
r.inventory_id
WHERE r.rental_id IS NULL

```

Izoh: film → inventory → rental tartibi boyicha guruhlab chiqib keyin ularda hech qachon ijaraga berilmagan filmlarni chiqaradigan query

	AZ title	rental_date
1	Academy Dinosaur	[NULL]
2	Sky Miracle	[NULL]
3	Kill Brotherhood	[NULL]
4	Sister Freddy	[NULL]
5	Gladiator Westward	[NULL]
6	Floats Garden	[NULL]
7	Apollo Teen	[NULL]
8	Crystal Breaking	[NULL]
9	Hocus Frida	[NULL]
10	Frankenstein Stranger	[NULL]
11	Raiders Antitrust	[NULL]
12	Hate Handicap	[NULL]
13	Order Betrayed	[NULL]
14	Wake Jaws	[NULL]
15	Deliverance Mulholland	[NULL]
16	Butch Panther	[NULL]

3. **SELECT** s.staff_id ,
 p.amount
FROM staff s **RIGHT JOIN** payment p **ON** s.staff_id = p.staff_id

Izoh: bu sorovda har bir tolovni qaysi hodim qabul qilganini chiqaradi

SELECT s.staff_id , p.amount FROM staff s RIGHT JOIN payment p ON s.staff_id = p.staff_id Enter a SQL expression to filter results (use

	123 staff_id	123 amount
1	2	7.99
2	1	1.99
3	1	7.99
4	2	2.99
5	2	7.99
6	1	5.99
7	2	5.99
8	1	5.99
9	1	2.99
10	2	4.99
11	1	6.99
12	2	0.99
13	2	0.99
14	2	6.99
15	1	8.99
16	1	0.99

Refresh Save Cancel Export data

```

4.SELECT      f.title,
              a.first_name || ' ' || a.last_name AS full_name
FROM film f RIGHT JOIN film_actor f2 ON f.film_id = f2.film_id RIGHT JOIN actor a ON f2.actor_id =
a.actor_id
ORDER BY f.title

```

Izoh: har filmda qaysi actor chiqqani korsatadigan sorov

528K
120K
440K
24K
1.8M
2.4M
32K
40K

Grid

Text

Record

SELECT f.title, a.first_name || ' ' || a.last_name AS full_name

Enter a SQL expression to filter results (use Ctrl+Space)

	A-Z title	A-Z full_name
1	Academy Dinosaur	Rock Dukakis
2	Academy Dinosaur	Mary Keitel
3	Academy Dinosaur	Johnny Cage
4	Academy Dinosaur	Penelope Guinness
5	Academy Dinosaur	Sandra Peck
6	Academy Dinosaur	Christian Gable
7	Academy Dinosaur	Oprah Kilmer
8	Academy Dinosaur	Warren Nolte
9	Academy Dinosaur	Lucille Tracy
10	Academy Dinosaur	Mena Temple
11	Ace Goldfinger	Minnie Zellweger
12	Ace Goldfinger	Chris Depp
13	Ace Goldfinger	Bob Fawcett
14	Ace Goldfinger	Sean Guinness
15	Adaptation Holes	Cameron Streep
16	Adaptation Holes	Bob Fawcett

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```
5.SELECT      c.customer_id,
              count(c.customer_id) AS soni
FROM customer c JOIN rental r ON c.customer_id = r.customer_id
GROUP BY c.customer_id
ORDER BY soni DESC
LIMIT 10
```

Izoh: har bir mijoz necha marta film olganini chiqaradigan query bunda eng kop film ijaraga olgan top 10 ni chiarib beradi

[illegible]

Izoh: bu yerda rental → inventory → film boyicha join qilinib keyin rating boyicha guruhlanayapti

film 1 X

SELECT f.rating, count(*) AS soni FROM rental r JC | Enter a SQL expression to filter results (use Ctrl+Space)

	A-Z rating	123 soni
1	G	2,773
2	PG-13	3,585
3	PG	3,212
4	NC-17	3,293
5	R	3,181

Izoh: bu yerda tolov qilmagan mijozlaar uchun query edi lekin bizning jadvalda hamma tolov qilgani uchun hech nima chiqmaydi

[illegible]

Izoh: bu yerda customer jadvalida city_id yoqligi uchuni uni customer→address→city boyicha join qilib keyin bitta shaharda yashaydigan mijozlarni topildi

[illegible]


```

9. SELECT    c."name" AS category ,
            count(*) AS soni
FROM category c JOIN film_category f ON c.category_id = f.category_id
            JOIN inventory i      ON f.film_id = i.film_id
            JOIN rental r        ON i.inventory_id = r.inventory_id
GROUP BY category
ORDER BY soni DESC

```

Izoh: korsatilgan tartibda join qilinib keyin filmlarni categoriyasi boyicha nomlanadigan sorov

	A-Z category	123 soni
1	Sports	1,179
2	Animation	1,166
3	Action	1,112
4	Sci-Fi	1,101
5	Family	1,096
6	Drama	1,060
7	Documentary	1,050
8	Foreign	1,033
9	Games	969
10	Children	945
11	Comedy	941
12	New	940
13	Classics	939
14	Horror	846
15	Travel	837
16	Music	830

```

10. SELECT p.rental_id AS payment_rental_id,
        r.rental_id AS rental_rental_id,
        p.amount,
        r.rental_date
FROM payment p FULL OUTER JOIN rental r ON p.rental_id = r.rental_id
WHERE p.rental_id IS NULL OR r.rental_id IS NULL

```

Izoh: bunda tolov qilgan lekin ijara olmaganlarni chiqaradigan sorov

payment(+) 1				
SELECT p.rental_id AS payment_rental_id, r.rental_id AS rental_rental_id, p.amount, r.rental_date				
	123 payment_rental_id	123 rental_rental_id	123 amount	rental_date
1	[NULL]	599	[NULL]	2005-05-28 14:05:57.000
2	[NULL]	786	[NULL]	2005-05-29 15:17:28.000
3	[NULL]	1,065	[NULL]	2005-05-31 08:54:56.000
4	[NULL]	655	[NULL]	2005-05-28 20:16:20.000
5	[NULL]	478	[NULL]	2005-05-27 22:38:20.000
6	[NULL]	71	[NULL]	2005-05-25 10:26:39.000
7	[NULL]	624	[NULL]	2005-05-28 16:13:22.000
8	[NULL]	2,925	[NULL]	2005-06-20 04:23:49.000
9	[NULL]	1,139	[NULL]	2005-05-31 19:34:52.000
10	[NULL]	15	[NULL]	2005-05-25 00:39:22.000
11	[NULL]	2,183	[NULL]	2005-06-18 01:06:01.000
12	[NULL]	2,179	[NULL]	2005-06-18 00:41:36.000
13	[NULL]	165	[NULL]	2005-05-26 02:28:36.000
14	[NULL]	21	[NULL]	2005-05-25 01:59:46.000
15	[NULL]	570	[NULL]	2005-05-28 10:15:04.000
16	[NULL]	609	[NULL]	2005-05-28 15:04:02.000

11.

```

SELECT      c2."name" AS category,
CASE
    WHEN LEFT(c.first_name , 1) BETWEEN 'A' AND 'M' THEN 'Male'
    ELSE 'Female'
END AS gender,
count(*) AS soni
FROM customer c JOIN rental r      ON c.customer_id = r.customer_id
    JOIN inventory i      ON r.inventory_id = i.inventory_id
    JOIN film f      ON i.film_id = f.film_id
    JOIN film_category f2 ON f.film_id = f2.film_id
    JOIN category c2      ON f2.category_id = c2.category_id
GROUP BY category , gender
ORDER BY category

```

Izoh: film categoriyasi bo'yicha erkak va ayollar qanchadan sotib olganini chiqaradigan sorov bizda gender ustuni yoqligi uchun berilgan shart bo'yicha caseda guruhlariga ajratib oldik

216K	
936K	
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24K	
1.8M	
2.4M	
32K	
40K	

category 1 X			
SELECT c2."name" AS category, CASE WHEN LEFT Enter a SQL expression to filter results (use Ctrl+Space)			
Grid	AZ category	AZ gender	123 soni
1	Action	Female	315
2	Action	Male	797
3	Animation	Female	353
4	Animation	Male	813
5	Children	Male	682
6	Children	Female	263
7	Classics	Male	647
8	Classics	Female	292
9	Comedy	Male	648
10	Comedy	Female	293
11	Documentary	Male	758
12	Documentary	Female	292
13	Drama	Male	742
14	Drama	Female	318
15	Family	Male	809
16	Family	Female	287

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