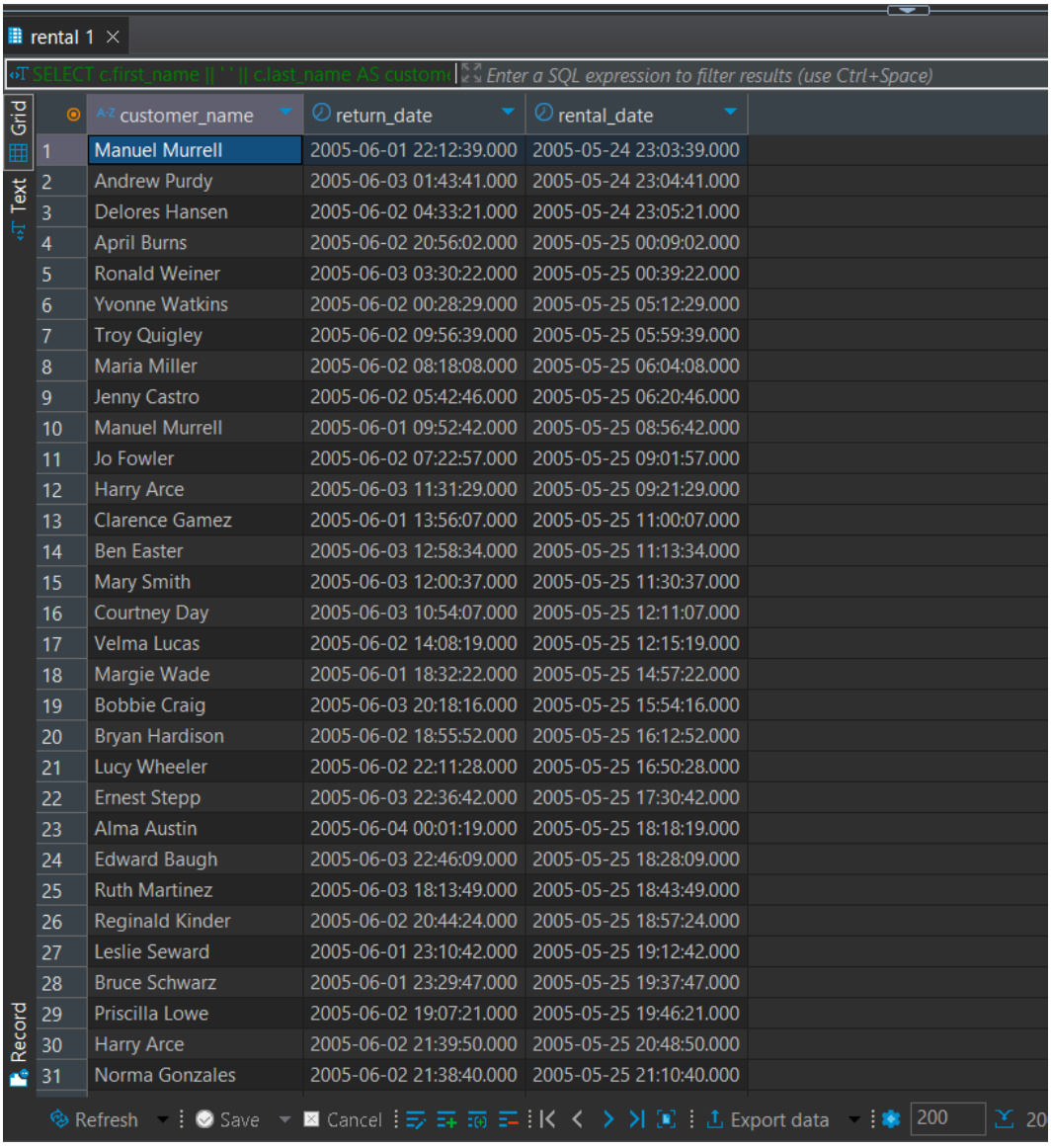
1. Dapatkan nama customers dan waktu pengembalian untuk semua transaksi yang melebihi batas waktu pengembalian (7 hari).

JAWABAN NO. 1

```
SELECT
    c.first_name || ' ' || c.last_name AS customer_name,
    r.return_date,
    r.rental_date
FROM customer c
JOIN rental r ON c.customer_id = r.customer_id
WHERE r.return_date > r.rental_date + '7 day';
```



rental 1

SELECT c.first_name || ' ' || c.last_name AS custome | Enter a SQL expression to filter results (use Ctrl+Space)

Grid | Text | Record

	customer_name	return_date	rental_date
1	Manuel Murrell	2005-06-01 22:12:39.000	2005-05-24 23:03:39.000
2	Andrew Purdy	2005-06-03 01:43:41.000	2005-05-24 23:04:41.000
3	Delores Hansen	2005-06-02 04:33:21.000	2005-05-24 23:05:21.000
4	April Burns	2005-06-02 20:56:02.000	2005-05-25 00:09:02.000
5	Ronald Weiner	2005-06-03 03:30:22.000	2005-05-25 00:39:22.000
6	Yvonne Watkins	2005-06-02 00:28:29.000	2005-05-25 05:12:29.000
7	Troy Quigley	2005-06-02 09:56:39.000	2005-05-25 05:59:39.000
8	Maria Miller	2005-06-02 08:18:08.000	2005-05-25 06:04:08.000
9	Jenny Castro	2005-06-02 05:42:46.000	2005-05-25 06:20:46.000
10	Manuel Murrell	2005-06-01 09:52:42.000	2005-05-25 08:56:42.000
11	Jo Fowler	2005-06-02 07:22:57.000	2005-05-25 09:01:57.000
12	Harry Arce	2005-06-03 11:31:29.000	2005-05-25 09:21:29.000
13	Clarence Gamez	2005-06-01 13:56:07.000	2005-05-25 11:00:07.000
14	Ben Easter	2005-06-03 12:58:34.000	2005-05-25 11:13:34.000
15	Mary Smith	2005-06-03 12:00:37.000	2005-05-25 11:30:37.000
16	Courtney Day	2005-06-03 10:54:07.000	2005-05-25 12:11:07.000
17	Velma Lucas	2005-06-02 14:08:19.000	2005-05-25 12:15:19.000
18	Margie Wade	2005-06-01 18:32:22.000	2005-05-25 14:57:22.000
19	Bobbie Craig	2005-06-03 20:18:16.000	2005-05-25 15:54:16.000
20	Bryan Hardison	2005-06-02 18:55:52.000	2005-05-25 16:12:52.000
21	Lucy Wheeler	2005-06-02 22:11:28.000	2005-05-25 16:50:28.000
22	Ernest Stepp	2005-06-03 22:36:42.000	2005-05-25 17:30:42.000
23	Alma Austin	2005-06-04 00:01:19.000	2005-05-25 18:18:19.000
24	Edward Baugh	2005-06-03 22:46:09.000	2005-05-25 18:28:09.000
25	Ruth Martinez	2005-06-03 18:13:49.000	2005-05-25 18:43:49.000
26	Reginald Kinder	2005-06-02 20:44:24.000	2005-05-25 18:57:24.000
27	Leslie Seward	2005-06-01 23:10:42.000	2005-05-25 19:12:42.000
28	Bruce Schwarz	2005-06-01 23:29:47.000	2005-05-25 19:37:47.000
29	Priscilla Lowe	2005-06-02 19:07:21.000	2005-05-25 19:46:21.000
30	Harry Arce	2005-06-02 21:39:50.000	2005-05-25 20:48:50.000
31	Norma Gonzales	2005-06-02 21:38:40.000	2005-05-25 21:10:40.000

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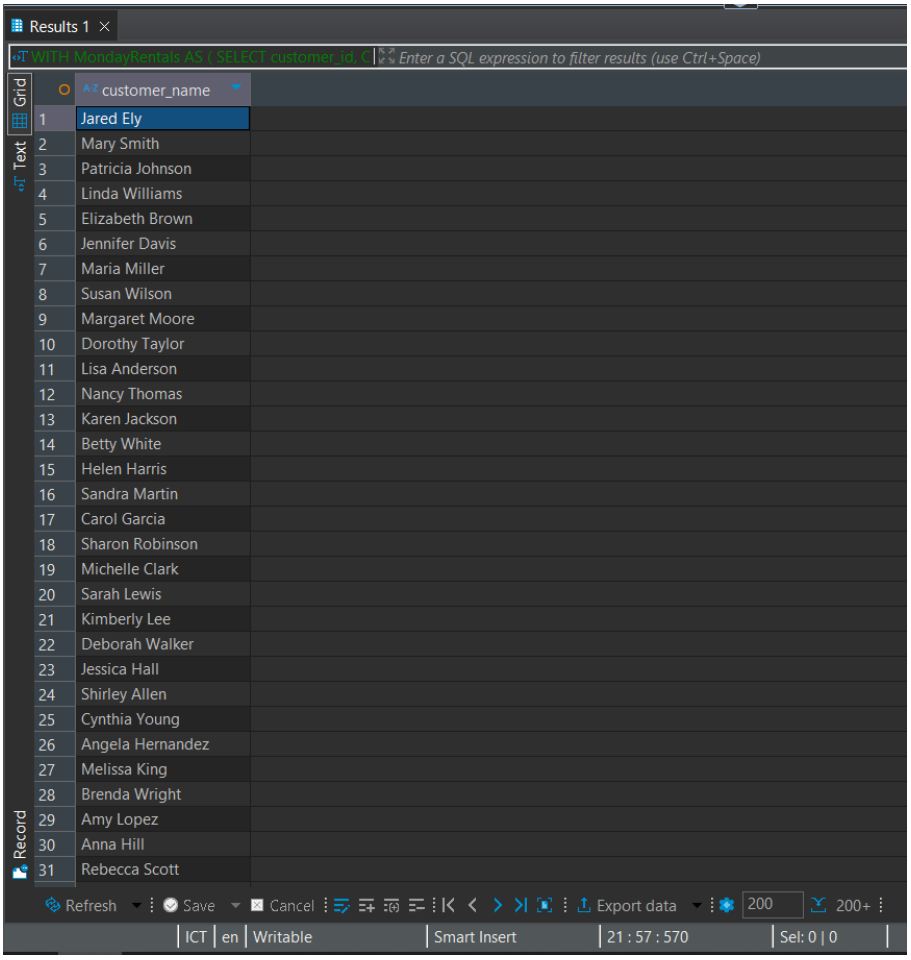
2. Tampilkan nama pelanggan yang melakukan transaksi peminjaman lebih dari sekali pada hari Senin! Gunakan CTE!

JAWABAN NO.2

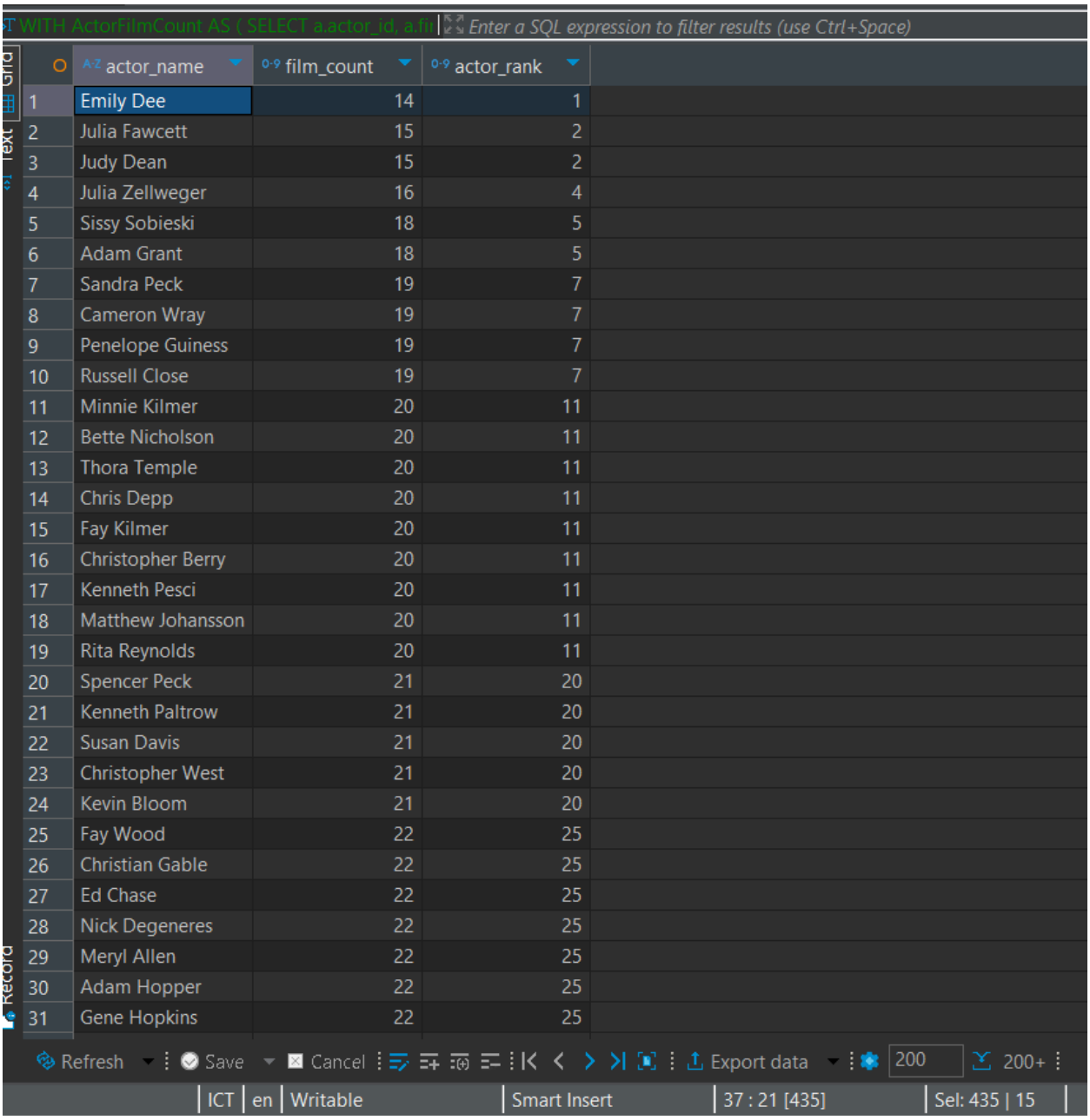
```sql
WITH MondayRentals AS (
    SELECT
        customer_id,
        COUNT(*) AS rental_count
    FROM rental
    WHERE EXTRACT(DOW FROM rental_date) = 1
    GROUP BY customer_id
    HAVING COUNT(*) > 1
)
SELECT
    c.first_name || ' ' || c.last_name AS customer_name
FROM customer c
JOIN MondayRentals mr ON c.customer_id = mr.customer_id;
```



3. Temukan nama aktor dan jumlah film yang dia mainkan, serta peringkat aktor berdasarkan jumlah film. Urutkan berdasarkan peringkat secara ascending. Gunakan RANK!

JAWABAN NO.3

```sql
WITH ActorFilmCount AS (
    SELECT
        a.actor_id,
        a.first_name || ' ' || a.last_name AS actor_name,
        COUNT(DISTINCT fa.film_id) AS film_count
    FROM actor a
    JOIN film_actor fa ON a.actor_id = fa.actor_id
    GROUP BY a.actor_id, a.first_name, a.last_name
)
SELECT
    actor_name,
    film_count,
    RANK() OVER (ORDER BY film_count ASC) AS actor_rank
FROM ActorFilmCount
ORDER BY actor_rank;
```

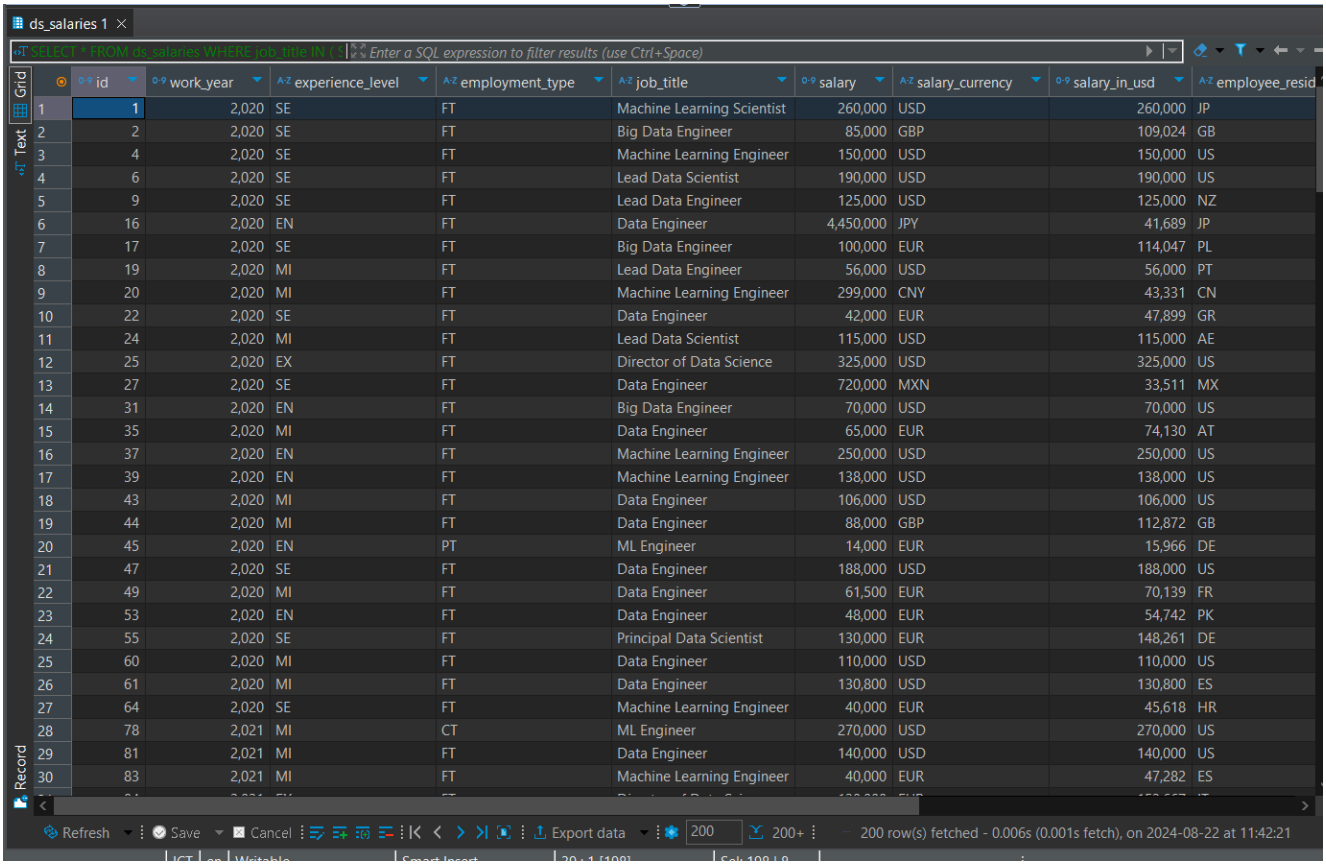


	actor_name	film_count	actor_rank
1	Emily Dee	14	1
2	Julia Fawcett	15	2
3	Judy Dean	15	2
4	Julia Zellweger	16	4
5	Sissy Sobieski	18	5
6	Adam Grant	18	5
7	Sandra Peck	19	7
8	Cameron Wray	19	7
9	Penelope Guiness	19	7
10	Russell Close	19	7
11	Minnie Kilmer	20	11
12	Bette Nicholson	20	11
13	Thora Temple	20	11
14	Chris Depp	20	11
15	Fay Kilmer	20	11
16	Christopher Berry	20	11
17	Kenneth Pesci	20	11
18	Matthew Johansson	20	11
19	Rita Reynolds	20	11
20	Spencer Peck	21	20
21	Kenneth Paltrow	21	20
22	Susan Davis	21	20
23	Christopher West	21	20
24	Kevin Bloom	21	20
25	Fay Wood	22	25
26	Christian Gable	22	25
27	Ed Chase	22	25
28	Nick Degeneres	22	25
29	Meryl Allen	22	25
30	Adam Hopper	22	25
31	Gene Hopkins	22	25

4. Tampilkan (semua kolom) dengan job_title yang memiliki salary_in_usd lebih besar dari rata-rata salary dari seluruh job_title. Namun, tampilkan hanya company_size = S.

JAWABAN NO.4

```sql
SELECT *
FROM ds_salaries
WHERE job_title IN (
    SELECT job_title
    FROM ds_salaries
    WHERE salary_in_usd > (SELECT AVG(salary_in_usd) FROM ds_salaries)
    AND company_size = 'S'
);
```

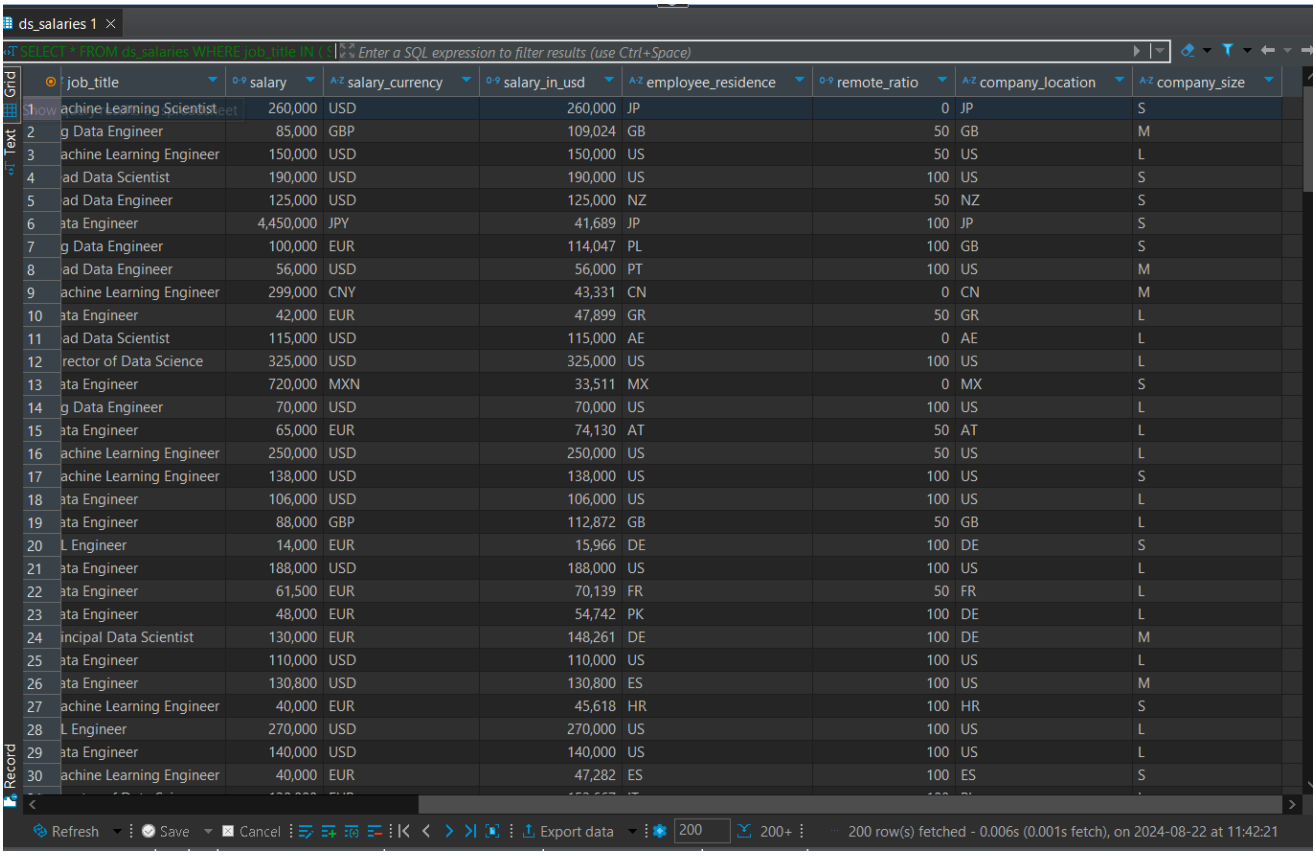


ds_salaries 1

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

	id	work_year	experience_level	employment_type	job_title	salary	salary_currency	salary_in_usd	employee_resid
1	1	2,020	SE	FT	Machine Learning Scientist	260,000	USD	260,000	JP
2	2	2,020	SE	FT	Big Data Engineer	85,000	GBP	109,024	GB
3	4	2,020	SE	FT	Machine Learning Engineer	150,000	USD	150,000	US
4	6	2,020	SE	FT	Lead Data Scientist	190,000	USD	190,000	US
5	9	2,020	SE	FT	Lead Data Engineer	125,000	USD	125,000	NZ
6	16	2,020	EN	FT	Data Engineer	4,450,000	JPY	41,689	JP
7	17	2,020	SE	FT	Big Data Engineer	100,000	EUR	114,047	PL
8	19	2,020	MI	FT	Lead Data Engineer	56,000	USD	56,000	PT
9	20	2,020	MI	FT	Machine Learning Engineer	299,000	CNY	43,331	CN
10	22	2,020	SE	FT	Data Engineer	42,000	EUR	47,899	GR
11	24	2,020	MI	FT	Lead Data Scientist	115,000	USD	115,000	AE
12	25	2,020	EX	FT	Director of Data Science	325,000	USD	325,000	US
13	27	2,020	SE	FT	Data Engineer	720,000	MXN	33,511	MX
14	31	2,020	EN	FT	Big Data Engineer	70,000	USD	70,000	US
15	35	2,020	MI	FT	Data Engineer	65,000	EUR	74,130	AT
16	37	2,020	EN	FT	Machine Learning Engineer	250,000	USD	250,000	US
17	39	2,020	EN	FT	Machine Learning Engineer	138,000	USD	138,000	US
18	43	2,020	MI	FT	Data Engineer	106,000	USD	106,000	US
19	44	2,020	MI	FT	Data Engineer	88,000	GBP	112,872	GB
20	45	2,020	EN	PT	ML Engineer	14,000	EUR	15,966	DE
21	47	2,020	SE	FT	Data Engineer	188,000	USD	188,000	US
22	49	2,020	MI	FT	Data Engineer	61,500	EUR	70,139	FR
23	53	2,020	EN	FT	Data Engineer	48,000	EUR	54,742	PK
24	55	2,020	SE	FT	Principal Data Scientist	130,000	EUR	148,261	DE
25	60	2,020	MI	FT	Data Engineer	110,000	USD	110,000	US
26	61	2,020	MI	FT	Data Engineer	130,800	USD	130,800	ES
27	64	2,020	SE	FT	Machine Learning Engineer	40,000	EUR	45,618	HR
28	78	2,021	MI	CT	ML Engineer	270,000	USD	270,000	US
29	81	2,021	MI	FT	Data Engineer	140,000	USD	140,000	US
30	83	2,021	MI	FT	Machine Learning Engineer	40,000	EUR	47,282	ES

Refresh | Save | Cancel | Export data | 200 | 200+ | 200 row(s) fetched - 0.006s (0.001s fetch), on 2024-08-22 at 11:42:21


ds_salaries 1
SELECT * FROM ds_salaries WHERE job_title IN ('
Enter a SQL expression to filter results (use Ctrl+Space)
Grid
Text
Record
job_title
salary
salary_currency
salary_in_usd
employee_residence
remote_ratio
company_location
company_size
1 achine Learning Scientist 260,000 USD 260,000 JP 0 JP S
2 g Data Engineer 85,000 GBP 109,024 GB 50 GB M
3 achine Learning Engineer 150,000 USD 150,000 US 50 US L
4 ad Data Scientist 190,000 USD 190,000 US 100 US S
5 ad Data Engineer 125,000 USD 125,000 NZ 50 NZ S
6 ata Engineer 4,450,000 JPY 41,689 JP 100 JP S
7 g Data Engineer 100,000 EUR 114,047 PL 100 GB S
8 ad Data Engineer 56,000 USD 56,000 PT 100 US M
9 achine Learning Engineer 299,000 CNY 43,331 CN 0 CN M
10 ata Engineer 42,000 EUR 47,899 GR 50 GR L
11 ad Data Scientist 115,000 USD 115,000 AE 0 AE L
12 rector of Data Science 325,000 USD 325,000 US 100 US L
13 ata Engineer 720,000 MXN 33,511 MX 0 MX S
14 g Data Engineer 70,000 USD 70,000 US 100 US L
15 ata Engineer 65,000 EUR 74,130 AT 50 AT L
16 achine Learning Engineer 250,000 USD 250,000 US 50 US L
17 achine Learning Engineer 138,000 USD 138,000 US 100 US S
18 ata Engineer 106,000 USD 106,000 US 100 US L
19 ata Engineer 88,000 GBP 112,872 GB 50 GB L
20 L Engineer 14,000 EUR 15,966 DE 100 DE S
21 ata Engineer 188,000 USD 188,000 US 100 US L
22 ata Engineer 61,500 EUR 70,139 FR 50 FR L
23 ata Engineer 48,000 EUR 54,742 PK 100 DE L
24 incipal Data Scientist 130,000 EUR 148,261 DE 100 DE M
25 ata Engineer 110,000 USD 110,000 US 100 US L
26 ata Engineer 130,800 USD 130,800 ES 100 US M
27 achine Learning Engineer 40,000 EUR 45,618 HR 100 HR S
28 L Engineer 270,000 USD 270,000 US 100 US L
29 ata Engineer 140,000 USD 140,000 US 100 US L
30 achine Learning Engineer 40,000 EUR 47,282 ES 100 ES S
Refresh
Save
Cancel
Export data
200
200+
200 row(s) fetched - 0.006s (0.001s fetch), on 2024-08-22 at 11:42:21