

1.

```
[dvdrental=# select rental_rate, rating, count(film_id) as number_of_films
[dvdrental=# from film
[dvdrental=# group by grouping sets((rental_rate), (rating));
```

rental_rate	rating	number_of_films
2.99		323
4.99		336
0.99		341
	G	178
	PG-13	223
	NC-17	210
	PG	194
	R	195

(8 rows)

2.

```
[dvdrental=# select actor_id, name, count(film_id) as total_number
[dvdrental=# from film natural join film_actor natural join film_category natural join category
[dvdrental=# where actor_id = 1 or actor_id = 2
[dvdrental=# group by cube(actor_id, name)
[dvdrental=# order by actor_id, name;
```

actor_id	name	total_number
1	Animation	1
1	Children	1
1	Classics	2
1	Comedy	1
1	Documentary	1
1	Family	2
1	Foreign	1
1	Games	2
1	Horror	3
1	Music	1
1	New	2
1	Sci-Fi	1
1	Sports	1
1		19
2	Action	1
2	Animation	1
2	Children	1
2	Classics	2
2	Comedy	2
2	Documentary	1
2	Drama	1
2	Family	4
2	Foreign	2
2	Games	1
2	Music	1
2	New	4
2	Sci-Fi	2
2	Travel	2
2		25
	Action	1
	Animation	2
	Children	2
	Classics	4
	Comedy	3
	Documentary	2
	Drama	1
	Family	6
	Foreign	3
	Games	3
	Horror	3
	Music	2
	New	6
	Sci-Fi	3
	Sports	1
	Travel	2
		44

(46 rows)

3.

```

choijaewon — more - runpsql.sh — 95x28
dvdrental=# select y, m, d, sum(amount) as amount
dvdrental=# from (select rental_id, extract(year from rental_date) y,
dvdrental=# extract(month from rental_date) m, extract(day from rental_date) d from rental)
dvdrental=# as rental_info natural join payment
dvdrental=# group by rollup(y, m, d);
 y | m | d | amount
---+---+---+-----
2005 | 6 | 14 | 41.89
2005 | 6 | 15 | 1179.97
2005 | 6 | 16 | 1191.11
2005 | 6 | 17 | 1158.19
2005 | 6 | 18 | 1284.99
2005 | 6 | 19 | 1283.92
2005 | 6 | 20 | 1223.09
2005 | 6 | 21 | 986.69
2005 | 6 |  | 8349.85
2005 | 7 | 5 | 128.73
2005 | 7 | 6 | 2131.96
2005 | 7 | 7 | 1943.39
2005 | 7 | 8 | 2219.84
2005 | 7 | 9 | 2075.87
2005 | 7 | 10 | 1939.20
2005 | 7 | 11 | 1938.39
2005 | 7 | 12 | 2105.05
2005 | 7 | 26 | 160.67
2005 | 7 | 27 | 2726.51

```

4.

```

choijaewon — more - runpsql.sh — 118x61
^
dvdrental=# with ranking as (select category_id, rank() over(partition by category_id order by A desc), customer_id
dvdrental=# from (select customer_id, category_id, count(film_id) as A from rental natural join inventory natural join
dvdrental=# film natural join film_category group by customer_id, category_id) as rental)
dvdrental=# select category_id, rank, customer_id
dvdrental=# from ranking where rank = 1 or rank =2;
category_id | rank | customer_id
---+---+-----
1 | 1 | 506
1 | 1 | 323
2 | 1 | 526
2 | 1 | 196
3 | 1 | 38
3 | 2 | 408
3 | 2 | 574
4 | 1 | 5
4 | 2 | 1
5 | 1 | 197
5 | 2 | 584
5 | 2 | 244
6 | 1 | 243
6 | 2 | 257
7 | 1 | 122

```

15	2	594
15	2	16
15	2	494
16	1	375
16	2	323
16	2	473
16	2	216
16	2	148
16	2	567
16	2	381
16	2	414
(65 rows)		

5.

```
dvdrental=# with total_amount as(select customer_id, country, sum(amount) as sum_amount
from customer natural join payment natural join address natural join city natural join country
group by (customer_id, country))
select customer_id, country, sum_amount, c_amount, dense_rank() over(partition by country order by sum_amount) from (s)
elect customer_id, country, sum_amount, sum(sum_amount) over (partition by country) as c_amount from total_amount)
as total_amount;
```

customer_id	country	sum_amount	c_amount	dense_rank
218	Afghanistan	67.82	67.82	1
69	Algeria	89.77	349.18	1
441	Algeria	107.73	349.18	2
176	Algeria	151.68	349.18	3
320	American Samoa	47.85	47.85	1
383	Angola	93.75	187.55	1
528	Angola	93.80	187.55	2
381	Anguilla	99.68	99.68	1
530	Argentina	75.78	1298.80	1
243	Argentina	77.77	1298.80	2
322	Argentina	81.81	1298.80	3
24	Argentina	85.77	1298.80	4
359	Argentina	85.78	1298.80	5
445	Argentina	96.76	1298.80	6
219	Argentina	100.75	1298.80	7
405	Argentina	101.70	1298.80	8
331	Argentina	105.78	1298.80	9
107	Argentina	114.72	1298.80	10
585	Argentina	117.76	1298.80	11
89	Argentina	124.71	1298.80	12
560	Argentina	129.71	1298.80	13
41	Armenia	118.75	118.75	1
159	Austria	58.83	284.30	1
173	Austria	111.73	284.30	2
266	Austria	113.74	284.30	3
333	Azerbaijan	89.78	198.53	1
334	Azerbaijan	108.75	198.53	2
590	Bahrain	108.76	108.76	1
329	Bangladesh	98.77	353.19	1
332	Bangladesh	107.74	353.19	2
21	Bangladesh	146.68	353.19	3
527	Belarus	81.76	271.36	1
144	Belarus	189.60	271.36	2
455	Bolivia	85.78	178.56	1
431	Bolivia	92.78	178.56	2
310	Brazil	68.87	2919.19	1
325	Brazil	72.82	2919.19	2
398	Brazil	73.85	2919.19	3
183	Brazil	75.78	2919.19	4

중간생략...

526	United States	208.58	3685.31	36
568	Venezuela	66.79	632.43	1
290	Venezuela	80.78	632.43	2
174	Venezuela	81.81	632.43	3
539	Venezuela	84.80	632.43	4
111	Venezuela	94.75	632.43	5
113	Venezuela	111.73	632.43	6
453	Venezuela	111.77	632.43	7
340	Vietnam	83.77	676.45	1
523	Vietnam	87.80	676.45	2
199	Vietnam	95.76	676.45	3
520	Vietnam	127.69	676.45	4
472	Vietnam	131.74	676.45	5
532	Vietnam	149.69	676.45	6
406	Virgin Islands, U.S.	121.69	121.69	1
303	Yemen	70.81	473.93	1
213	Yemen	110.73	473.93	2
210	Yemen	134.70	473.93	3
470	Yemen	157.69	473.93	4
553	Yugoslavia	102.77	233.49	1
7	Yugoslavia	130.72	233.49	2
438	Zambia	121.70	121.70	1

(599 rows)