1.

```
select rental_rate, rating, count(film_id)
from film
group by
    grouping sets(
    (rental_rate),
    (rating)
    );
```

```
count
rental rate
              | rating
        2.99
                           323
        4.99
                           336
        0.99
                           341
                           195
               R
                           194
               PG
               PG-13
                           223
               NC-17
                           210
                           178
               G
(8 rows)
```

```
select actor_id, name, count(film_id)
from film_actor as fa
    join film_category as fc using (film_id)
    join category as c using(category_id)
where fa.actor_id = 1 or fa.actor_id = 2
group by
    cube(actor_id, name)
order by actor_id;
```

actor_id	name	count
1	Music	1 1
1	Children	1
1	Games	2
1	Animation	1
1	Comedy	1
1	Documentary	1
1	Foreign	1
1	Sports	1
1	New	2
1		19
1	Horror	3
1	Sci-Fi	1
1	Classics	2
1	Family	2
2	Action	1
2	Animation	1
2	Documentary	1
2	Comedy	2
2	New	4
2	Family	4
2	Music	1
2	Foreign	2

2	Sci-Fi	2
2	Classics	2
2	Children	1
2 2	Travel	2
2	Drama	1
2	Games	1
2		25
	Sci-Fi	3
	Family	6
	Games	3
	Animation	2
	Classics	4
	Documentary	2
	Sports	1
	New	6
	Children	2
	Music	2
	Travel	2
	Foreign	3
	Drama	
	Horror	3
	Action	1
	Comedy	3
		44
(46 rows)		

у	m	d	count	2005	7	11	461
	+		+	2005	7	12	495
2005	5	24	8	2005	7	26	33
2005	j 5	25	137	2005	7	27	649
2005	j 5	26	174	2005	7	28	620
2005	j 5	27	166	2005	7	29	641
2005	j 5	28	196	2005	7	30	634
2005	j 5	29	154	2005	7	31	679
2005	j 5	30	158	2005	7		6709
2005	j 5	31	163	2005	8	1	671
2005	j 5	i	1156	2005	8	2	643
2005	j 6	14	16	2005	8	16	23
2005	j 6	15	348	2005	8	17	593
2005	j 6	16	324	2005	8	18	621
2005	j 6	17	325	2005	8	19	628
2005	j 6	18	344	2005	8	20	624
2005	j 6	19	348	2005	8	21	659
2005	j 6	20	331	2005	8	22	626
2005	j 6	21	275	2005	8	23	598
2005	j 6	i	2311	2005	8		5686
2005	j 7	5	27	2005	1		15862
2005	j 7	6	504	2006	2	14	182
2005	j 7	7	461	2006	2		182
2005	j 7	8	512	2006			182
2005	j 7	9	513		T		16044
2005	7	10	480	(49 ro	ws)		

category_i	d_	customer id	count	rank	
		+	+	+	
	1	506	7	1	
	1	323	7	1	
	2	526	8	1	
	2	196	8	1	
	3	38	7	1	
	3	574	6	2	
	3	408	6		
	4	5	7	1	
	4	1	6	2	
	5	197	7	1	
	5	584	6	2	
	5	244	6	2	
	6	243	8	1	
	6 7	257	7	2	
	7	133 424	7	1 2	
	7	354	6 6	2	
	7	354	6	2	
	7	76	6	2	
	8	526	6	2 2 2 1	
	8	116	7	1	
	8	181	7	1	
	9	562	6	1	
	9	446	6	1	
	9	215	6	1	
	9	356	6	1	
	9	380	6	1	
	9	469	6	1	
	9	168	6	1	
1	.0	469	9	1	
	.0	522	7	2	
1	1	204		1	
1	1	134	5 5 5	1	
	1	181	5	1	
	.1	513	5	1	
	.1	122	5	1	
	1	563	5	1	
1	.1	12	5	1	
1	1	526	5	1	(65 rows

	-			_
	12	71	6 1	
	12	472	6 1	
	13	20	7 1	
	13	206	7 1	
	13	441	7 1	
	14	148	7 1	
:	14	279	7 1	
	15 j	454	7 1	
	15 j	569	6 j 2	2
	15	277 j	6 2 6 2 6 2	2
	15	591	6 j 2	2
	15	314	6 j 2	2
	15	579	6 2 6 2 6 2 6 2	2
	15	594	6 2	2
	15	494	6 2	>
	15	138	6 2	>
	15	16		5
	15	539	6 2	,
	16	375	7 1	
	16	216	5 2	,
	16	414	5 2 5 2 5 2	5
	16	473	5	,
	16	381	5 2	,
	16	148	5 2	,
	16	323	5 2 5 2 5 2	,
	16	567	5 2	,
(65 rows)	10	307	3 2	
(CNO CNO)				

```
with total_amount as
 (select customer_id, country, sum(amount) as one_sum
 from customer
      join payment using(customer_id)
      join address using(address_id)
      join city using(city_id)
      join country using(country_id)
 group by customer_id, country
 ),
 country_total as (
 select *, sum(one_sum) over(partition by country) as country_sum
 from total amount
 select *, dense_rank() over(order by country_sum desc) as country_rank
 from country_total;
customer_id |
                                                  | one_sum | country_sum | country_rank
                           country
       231 | India
                                                      88.77
                                                                 6034.78
                                                      76.78
                                                                 6034.78
       224
             India
       492
             India
                                                      62.85
                                                                 6034.78
       358
                                                      75.80
                                                                 6034.78
             India
                                                      93.78
       336
             India
                                                                 6034.78
       379
                                                      96.79
                                                                 6034.78
             India
                                                                 6034.78
       117
                                                      69.83
             India
       529
             India
                                                     115.72
                                                                 6034.78
       217
                                                                 6034.78
             India
                                                     86.79
       509
             India
                                                      86.82
                                                                 6034.78
             India
                                                     141.69
                                                                 6034.78
       446
                                                     109.72
                                                                 6034.78
             India
                                                                 6034.78
       534
             India
                                                     81.78
       370
             India
                                                      70.81
                                                                 6034.78
                                                     104.74
                                                                 6034.78
             India
       440
             India
                                                     83.79
                                                                 6034.78
       238
                                                      86.81
                                                                 6034.78
             India
        68
             India
                                                      94.78
                                                                 6034.78
       316
             India
                                                      80.81
                                                                 6034.78
       367
                                                      97.80
                                                                 6034.78
             India
                                                      56.84
                                                                 6034.78
       271
             India
       268
                                                      96.79
                                                                 6034.78
             India
                                                                 6034.78
                                                      80.78
       287
             India
       208
             India
                                                      86.75
                                                                 6034.78
                                                     111.71
                                                                 6034.78
       186
             India
       508
                                                     121.77
                                                                 6034.78
             India
             India
                                                     104.75
                                                                 6034.78
        28
                                                     105.70
                                                                 6034.78
             India
                                                     154.70
                                                                 6034.78
       259
             India
        95
                                                      72.83
                                                                 6034.78
             India
        60
                                                      88.78
                                                                 6034.78
             India
       136
             India
                                                     59.86
                                                                 6034.78
             India
                                                     112.74
                                                                 6034.78
       170
                                                     109.77
                                                                 6034.78
             India
       300
             India
                                                     123.74
                                                                 6034.78
        15
                                                     134.68
                                                                 6034.78
             India
       554
                                                     95.80
                                                                 6034.78
             India
        12
                                                      93.74
                                                                 6034.78
             India
       426
                                                     125.74
                                                                 6034.78
             India
       297
                                                     99.74
             India
                                                                 6034.78
       274
             India
                                                     116.73
                                                                 6034.78
       202
                                                                 6034.78
             India
                                                     103.74
```