

```
1 -- SELECT Title_Id, avg_rating FROM titles WHERE avg_rating <> 0.0;
```

```
1 -- SELECT movie_Id, name_Id, name FROM (SELECT movie_Id, name_Id FROM principals WHERE
(category='actor' OR category='actress')) as foo NATURAL JOIN (SELECT name_Id,
primary_name as name FROM names) as bar;
```

```
1 -- Step #1: combine the info of movie + actor + names
2 SELECT movie_Id, title, actor_Id, actor_name, avg_rating
3 INTO pairs
4 FROM (
5     SELECT movie_Id, name_Id as actor_Id
6     FROM principals
7     WHERE (
8         category='actor'
9         OR
10        category='actress'
11    )
12 ) as foo
13 NATURAL JOIN (
14     SELECT name_Id as actor_Id, primary_name as actor_name
15     FROM names
16 ) as bar
17 NATURAL JOIN (
18     SELECT title_id as movie_id, title, avg_rating
19     FROM titles
20     WHERE (
21         avg_rating <> 0.0
22     )
23 )as baz;
```

```
25 -- movie_id | title | actor_id | actor_name |
avg_rating
26 -- -----+-----+-----+-----+-----
---
27 -- tt0001812 | Oedipus Rex | nm0294276 | Theo Frenkel |
6.3
28 -- tt0001008 | The Prince and the Pauper | nm0874364 | Mabel Trunnelle |
5.6
29 -- tt0001240 | Hamlet | nm0627274 | Alwin Neuß |
3.9
30 -- tt0001240 | Hamlet | nm0742120 | Carl Rosenbaum |
3.9
```

```

31 -- tt0004249 | Lola | nm0290066 | Alec B. Francis |
    5.2
32 -- tt0004325 | The Merchant of Venice | nm0806565 | Phillips Smalley |
    5.2
33 -- tt0004325 | The Merchant of Venice | nm0916665 | Lois Weber |
    5.2
34 -- tt0004325 | The Merchant of Venice | nm0534221 | Jeanie Macpherson |
    5.2
35 -- tt0004325 | The Merchant of Venice | nm0933424 | Fred L. Wilson |
    5.2
36 -- tt0004707 | Tillie's Punctured Romance | nm0000122 | Charles Chaplin |
    6.3

```

```

1  -- Step #2: get the joint pairs
2  SELECT a.movie_id, a.actor_name as actor_a, b.actor_name as actor_b, a.avg_rating
3  INTO movie_pair
4  FROM pairs a, pairs b
5  WHERE (
6      a.movie_id = b.movie_id
7      AND
8      a.actor_name <> b.actor_name
9  );
10
11 -- movie_id | actor_a | actor_b | avg_rating
12 -- -+-----+-----+-----+
13 -- tt0001812 | Theo Frenkel | Suzanne de Baere | 6.3
14 -- tt0001008 | Mabel Trunnelle | Mark Twain | 5.6
15 -- tt0001008 | Mabel Trunnelle | William Sorelle | 5.6
16 -- tt0001008 | Mabel Trunnelle | Charles Ogle | 5.6
17 -- tt0001008 | Mabel Trunnelle | Cecil Spooner | 5.6
18 -- tt0001240 | Alwin Neuß | Oscar Langkilde | 3.9
19 -- tt0001240 | Alwin Neuß | Emilie Sannom | 3.9
20 -- tt0001240 | Alwin Neuß | Einar Zangenberg | 3.9
21 -- tt0001240 | Alwin Neuß | Aage Hertel | 3.9
22 -- tt0001240 | Alwin Neuß | Ella La Cour | 3.9

```

```

1  -- Step #3: get chem and show the top 10
2  SELECT actor_a, actor_b, AVG(avg_rating) as chem
3  FROM movie_pair
4  GROUP BY actor_a, actor_b
5  ORDER BY chem DESC LIMIT 10;
6
7  -- actor_a | actor_b | chem
8  -- -+-----+-----+-----+

```

```

9  -- Ally Beardsley | Brian Murphy      | 10.0000000000000000
10 -- Alva Lillie    | Mike Henderson   | 10.0000000000000000
11 -- Ally Beardsley | Brennan Lee Mulligan | 10.0000000000000000
12 -- Akbar Kurtha   | Jacqueline Leonard | 10.0000000000000000
13 -- Ally Beardsley | Emily Axford      | 10.0000000000000000
14 -- Alva Lillie    | Jessika Kwasniak  | 10.0000000000000000
15 -- Akbar Kurtha   | Christopher Timothy | 10.0000000000000000
16 -- Akbar Kurtha   | Mark Frost        | 10.0000000000000000
17 -- Akbar Kurtha   | Corrinne Wicks    | 10.0000000000000000
18 -- Alva Lillie    | Terri J. Lee      | 10.0000000000000000

```

Helper commands...

```

1  SELECT name_id as name_id_a, name_id as name_id_b, primary_name as name_a,
   primary_name as name_b
2  INTO double_names
3  FROM names;
4
5  -- name_id_a | name_id_b | name_a | name_b
6  -- -+-----+-----+-----+
7  -- nm0000001 | nm0000001 | Fred Astaire | Fred Astaire
8  -- nm0000002 | nm0000002 | Lauren Bacall | Lauren Bacall
9  -- nm0000003 | nm0000003 | Brigitte Bardot | Brigitte Bardot
10 -- nm0000004 | nm0000004 | John Belushi | John Belushi
11 -- nm0000005 | nm0000005 | Ingmar Bergman | Ingmar Bergman
12 -- nm0000006 | nm0000006 | Ingrid Bergman | Ingrid Bergman
13 -- nm0000007 | nm0000007 | Humphrey Bogart | Humphrey Bogart
14 -- nm0000008 | nm0000008 | Marlon Brando | Marlon Brando
15 -- nm0000009 | nm0000009 | Richard Burton | Richard Burton
16 -- nm0000010 | nm0000010 | James Cagney | James Cagney

```

```

1  SELECT a.name_a, a.name_b, b.chem
2  -- INTO hollywoodPairs
3  FROM double_names a JOIN movie_pair b
4  ON (
5    B.actor_a = A.name_id_a
6    AND
7    B.actor_b = A.name_id_b
8  )
9  GROUP BY B.actor_a, B.actor_b
10 ORDER BY chem DESC LIMIT 10;

```

```
1  -- #problem: transfer id to name
2  SELECT actor_a, name_a, actor_b, name_b, chem
3  FROM (
4      SELECT actor_a, actor_b, AVG(avg_rating) as chem
5      FROM movie_pair
6  ) as foo
7  NATURAL JOIN (
8      SELECT actor_name as name_a, actor_id
9      FROM pairs
10 ) as bar
11 NATURAL JOIN (
12     SELECT actor_name as name_b, actor_id
13     FROM pairs
14 ) as baz
15 WHERE (
16     foo.actor_a = bar.actor_id
17     AND
18     foo.actor_b = baz.actor_id
19 )
20 GROUP BY actor_a, actor_b
21 ORDER BY chem DESC LIMIT 10;
```