

Q1

```
select p.name from person p, movie m , movie_role mr
where m.name='The Da Vinci Code' and m.mid = mr.mid and p.pid = mr.pid order by
p.name;
```

NAME

```
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Jessica Alba
Scarlett Johanson
Tom Hanks
```

Q2

```
select a.mid1, m1.name, m1.rel_year, a.r1, a.c1 from movie m1,
((select r.mid as mid1, avg(rating) as r1, count(*) as c1 from movie m, review r
where r.mid=m.mid group by r.mid having avg(rating) =
(select max(avg_rat) from (select r.mid as rmid, avg(rating) as avg_rat from review r
group by r.mid)))a)
where m1.mid=a.mid1;
```

MID1	NAME	REL_YEAR	R1	C1
M11	Lucy	2015	9.5	2
M3	My big fat greek wedding	2000	9.5	2

Q3

```
select m.mid, m.name, m.rel_year, m.director, m.genre from movie m where m.mid
in
(select mid from review group by mid having avg(rating) =
(select min(avg_rat) from (select avg(rating) as avg_rat from review group by mid)))
and m.mid in
(select mid from review group by mid having count(*) =
(select max(y.num) from (select count(*) as num from review group by mid)y));
```

MID	NAME	REL_YEAR	DIRECTOR
M13	The God Father part II	1975	P1
	Action Thriller		

Q4

```
WITH
DATA as (select m1.rel_year as year, count(distinct m2.mid) as cnt1 from movie m1
Inner Join movie m2
    on m2.rel_year >= m1.rel_year and
    m2.rel_year < m1.rel_year + 10
    group by m1.rel_year),
FINAL_DATA as (select max(cnt1) as max_cnt from DATA)
SELECT d.year from FINAL_DATA f, DATA d where d.cnt1=f.max_cnt;
```

YEAR
2005
2009

Q5

```
WITH cast_cnt as (select mid, count(distinct pid) as pid_cnt from movie_role group
by mid),
    max_cast_cnt as (select max(pid_cnt) as max_pid_cnt from cast_cnt)
select m.name, pid_cnt from cast_cnt, max_cast_cnt, movie m where
cast_cnt.pid_cnt = max_cast_cnt.max_pid_cnt and m.mid=cast_cnt.mid;
```

NAME	PID_CNT
Lucy	4

Q6

```
With actor_role as (select m.mid as mid1, pid, role from movie_role mr, movie m
where m.mid=mr.mid and m.rel_year=2010),
actor_cnt as (select mid1, pid, count(role) as cnt from actor_role group by
(mid1,pid) having count(role)>=5)
select p.name, m.name, ar.mid1, ar.cnt from person p, movie m, actor_cnt ar
where p.pid=ar.pid and mid1=m.mid;
```

NAME	NAME	MID1	CNT
Tom Hanks	The Polar Express	M9	6

Q7

```
WITH avg_rating as (select r.mid as mid1 , avg(r.rating) as avgr from review r group
by r.mid)
```

```
select m.mid, m.name, m.rel_year, avr.avgr from movie m
INNER JOIN avg_rating avr on avr.mid1=m.mid and m.rel_year>=2005 and
m.rel_year<=2016 order by m.rel_year,m.name;
```

MID	NAME	REL_YEAR	AVGR
M12	The Da Vinci Code	2005	9
M15	Angels and Daemons	2009	8
M16	The Island	2010	7
M9	The Polar Express	2010	7
M10	Her	2013	8
M6	Now You see me	2013	8
M7	Barely Lethal	2014	8
M11	Lucy	2015	9.5

Q8:

```
With movie_avg as (select mid, avg(rating) as avg1 from review group by mid),
  High_Ratings as (select distinct pid from movie_role mr, movie_avg ma where
mr.mid=ma.mid and ma.avg1>=8),
  Low_Ratings as (select distinct pid from movie_role mr, movie_avg ma where
mr.mid=ma.mid and ma.avg1<8),
  No_flop as ((select pid as pid1 from High_Ratings) minus (select * from
Low_Ratings)),
  movie_cnt as (select pid, count(distinct mid) as cnt from movie_role, No_flop
where pid = No_flop.pid1 group by pid)
select name, cnt from movie_cnt mc1, person p1 where mc1.pid=p1.pid and
ROWNUM <= 10 order by mc1.cnt desc, p1.name asc;
```

NAME	CNT
Angelina Jolie	3
Scarlett Johanson	3
Alex Parish	1
Jennifer Lawrence	1

Q9:

```
WITH actor_pid as (select pid from person p where p.name='Al Pacino'),
  movie_list as (select distinct mr.mid as mid1 from actor_pid ap, movie_role mr
where mr.pid=ap.pid),
  actor_list as (select distinct pid as pid1, count(mr1.mid) as cnt from movie_role
mr1, movie_list ml where mr1.mid in ml.mid1 group by mr1.pid)
select p3.name from person p3 where p3.pid in
(select al2.pid1 from actor_list al2, actor_pid ap2 where al2.pid1 != ap2.pid and
al2.cnt =
```

```
(select cnt from actor_list al1, actor_pid ap1 where al1.pid1 = ap1.pid));
```

NAME

Morgan Freeman

Q10:

```
WITH ACTOR_LIST as (select p1.pid as pid1, m1.rel_year as year from person p1,
movie m1, movie_role mr1 where p1.pid=mr1.pid and mr1.mid=m1.mid),
  ACTOR_EXP as (select pid1, min(year), max(year), max(year)-min(year) as diff
from ACTOR_LIST group by pid1)
select pid1, person.name from ACTOR_EXP, person where person.pid = pid1 and diff
= (select max(diff) from ACTOR_EXP);
```

PID1 NAME

P5 Morgan Freeman

P8 Brad Pitt