

1. Find the titles of all movies that have no ratings.

```
movierating=# select distinct title from movie where mid not in(select mid from rating);
title
-----
Titanic
Star Wars
(2 rows)
```

2. Find the difference between the average rating of movies released before 1980 and the average rating of movies released after 1980. (Make sure to calculate the average rating for each movie, then the average of those averages for movies before 1980 and movies after. Don't just calculate the overall average rating before and after 1980.)

```
movierating=# select avg(A.avg1)-avg(B.avg1) as average from (select avg(stars) as avg1 from rating natural join movie where year < 1980 group by mid) A,(select avg(stars) as avg1 from rating natural join movie where year > 1980 group by mid) B;
average
-----
0.05555555555555555
(1 row)
```

3. Find all years that have a movie that received a rating of 4 or 5, and sort them in Descending order.

```
movierating=# select distinct year from movie,rating where movie.mid = rating.mid and stars in (4,5) order by year desc;
year
-----
2009
1981
1939
1937
(4 rows)
```

4. Some reviewers didn't provide a date with their rating. Find the names of all reviewers who have ratings with a null value for the date.

```
movierating=# select name from reviewer where rid in (select rid from rating where ratingdate is null);
name
-----
Daniel Lewis
Chris Jackson
(2 rows)
```

5. List movie titles and average ratings, from highest-rated to lowest-rated.

```

movierating=# select distinct title,avg(stars) from movie natural join rating group by title order by title;
      title      |      avg
-----+-----
Avatar            | 4.000000000000000
E.T.              | 2.500000000000000
Gone with the Wind | 3.000000000000000
Raiders of the Lost Ark | 3.333333333333333
Snow White        | 4.500000000000000
The Sound of Music | 2.500000000000000
(6 rows)

```

6. Find the names of all reviewers who have contributed three or more ratings.

```

movierating=# select name from reviewer where(select count(*) from rating where rating.rid = reviewer.rid)>=3;
      name
-----
Brittany Harris
Chris Jackson
(2 rows)

```

7. Return the movie name with minimum stars in the database.

```

movierating=# select distinct title from movie,rating where stars in (select min(stars) from rating) and rating.mid = movie.mid;
      title
-----
E.T.
Gone with the Wind
Raiders of the Lost Ark
The Sound of Music
(4 rows)

```

8. Find the average rating of the movie Gone with the Wind

```

movierating=# select avg(stars) as avg from movie,rating where movie.mid = rating.mid and title = 'Gone with the Wind';
      avg
-----
3.000000000000000
(1 row)

```

9. List movie titles and no of reviews given to each movie from highest-count to lowest-count.

```

movierating=# select distinct title,count(stars) from movie natural join rating group by title order by title;
      title      | count
-----+-----
Avatar            | 2
E.T.              | 2
Gone with the Wind | 3
Raiders of the Lost Ark | 3
Snow White        | 2
The Sound of Music | 2
(6 rows)

```

10. Find all the movie titles which are released in between 1964 and 1984(both years exclusive).

```

movierating=# select title from movie where year>1964 and year <1984;
      title
-----
Star Wars
The Sound of Music
E.T.
Raiders of the Lost Ark
(4 rows)

```