```
use sakila;
select count(*) from film;
select count(film_id) from film;
select count(release_year) from film;
-- This will count number of null values in release year column
select count(*) from film where release year is NULL;
select count("Hey") from film;
select "Hey" from film;
select count(1) from film;
select 1 from film;
-- find avg rental rate of all the movies
select avg(rental_rate) from film
where rental rate > 1.0;
-- where is applied before the aggregate function
select count(distinct release_year) from film;
select max(rental_rate) from film;
select bit and(film id) as AND VALUE, sum(film id) , avg(release year) ,
film_id as SUM from film;
select sum(film_id) from film;
select release_year , count(release_year) from film;
-- Error Code: 1140. In aggregated query without GROUP BY, expression #1 of
SELECT list contains nonaggregated column 'sakila.film.release_year'; this
is incompatible with sql_mode=only_full_group_by
select rental rate , count(*)
from film
group by release_year;
select distinct count(*)
from film
group by release year;
```

```
select release_year , count(*) as cnt
from film
group by release year
order by release_year;
select release_year , count(*) as cnt, avg(rental_rate) , min(rental_rate)
from film
group by release year
order by avg(rental_rate);
select release_year , count(*)
from film
group by film id
order by release_year;
-- group by on mutliple columns as well
select release_year, rental_rate , count(*)
from film
group by release year, rental rate;
select release_year, rental_rate , count(*)
from film
group by 1, 2
order by 3;
select rental_duration , count(*) as cnt
from film
group by rental_duration
having cnt >= 100;
-- List the customers who have made at least 30 rentals, and for each of
-- these customers,
-- display their customer ID and the count of rentals they've made
-- For every customer find the number of rentals
select customer.customer_id , customer.first_name, count(*) as cnt
from rental
join customer on customer.customer_id = rental.customer_id
group by rental.customer_id
having cnt >= 30;
```

```
-- Error Code: 1054. Unknown column 'customer.customer_name' in 'field
List'
-- Retrieve the total revenue earned by each film category,
-- but only include categories where the total
-- revenue is greater than $1,000. Order the results by revenue in
-- descending order.
-- payment * rental
-- rental * inventory
-- inventory * film
-- film * film category
-- film_category * category
select category.name , sum(amount) as revenue
from payment
join rental using (rental_id)
join inventory using (inventory_id)
join film using (film id)
join film_category using (film_id)
join category using (category_id)
group by category.name
having revenue >= 1000
order by revenue desc;
-- Find the actors who have appeared in at least two films together
-- (i.e., they share at least one film ID).
-- Display the actor IDs, names and the number of films they have appeared
in
-- together.
```