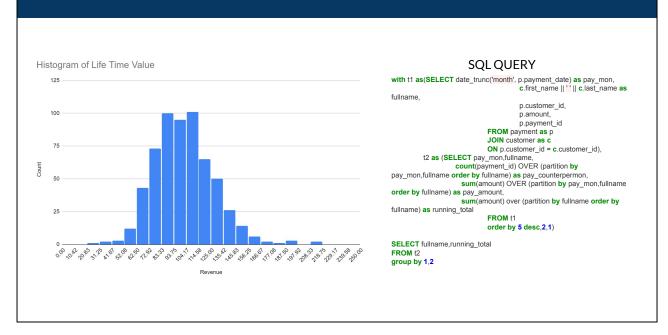
What is the Distribution of Customer Lifetime Value



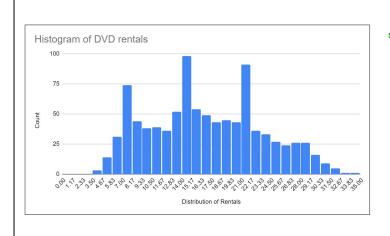
What we are looking at here is a distribution for customer lifetime value or the running total amount of revenue generated by all customers. Currently we can see the population of customers is grouped rather tightly grouped.

What is the Distribution of time a dvd spends on the shelf



First off some outliers have been removed as there are a few films that sat on the shelf for over 100 days! What we see here is a pretty even distribution of how long a movie sits on the self. Perhaps we should aimat reducing the time a movie sits on the shelf? Such as selling dvds at deep discount that sit on the shelf for longer than a 20 day period without being rented?

<What is the Distribution of Movie Demand by Title>



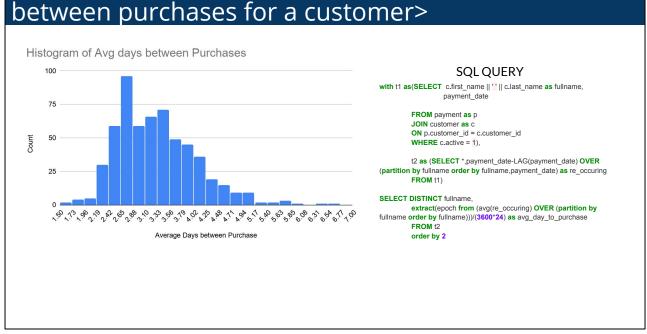
SELECT f.title,count(r.*) FROM rental as r JOIN inventory as i ON i.inventory_id = r.inventory_id

ON i.inventory_id = r.inventory_i JOIN film as f ON i.film_id = f.film_id GROUP by f.title order by 2 desc

SQL QUERY

Here is a simple histogram showing the distribution of movie demand by title. There are ~75 titles that get rented 7 times, ~95 titles that have been rented out 14 times, and ~85 titles that have been rented out a whopping 21 times! Some dvds get rented out a lot!





This shows the average time between rentals by customer. What we see is that there is a sharp increase in average time between purchases. Very few customers average less than 2 days between purchases, the majority return between 2 and 4 days. Could it be that customers are making purchases when they return 2 day or 4 day rentals?