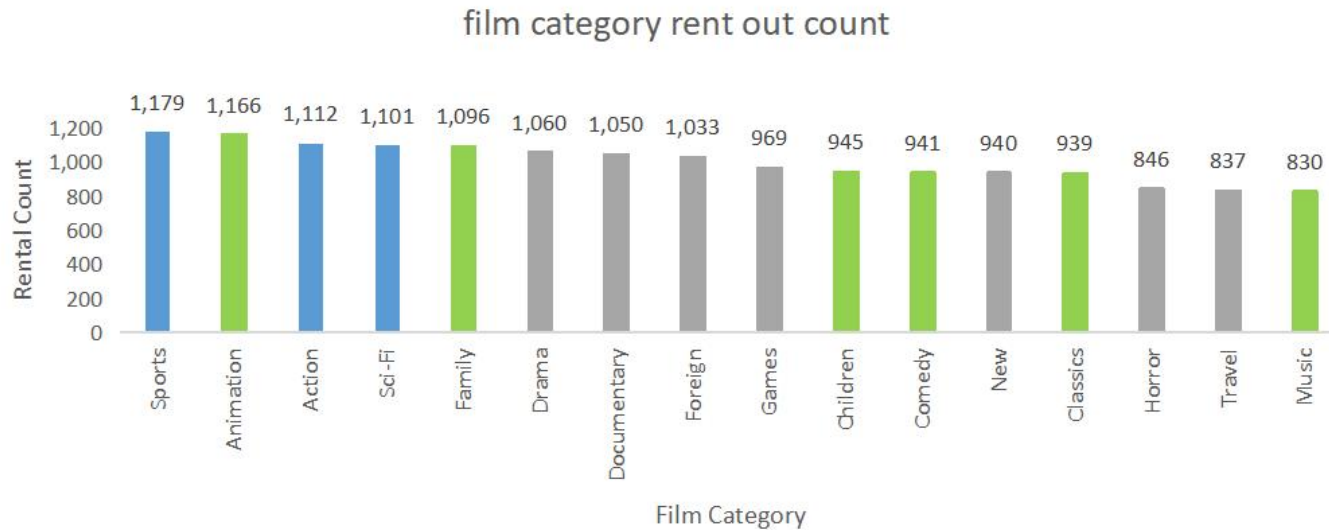# Project: Investigate a Relational Database
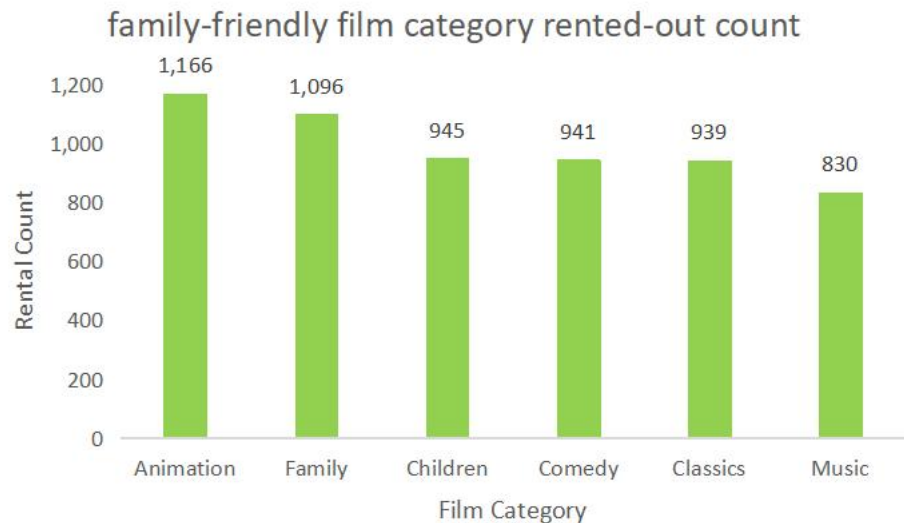
Yee Leng Chan

DVD Rental Database basic info

- 2 DVD stores with 2 staff
- The customer table holds 599 customers profile created in 2006 Feb across 108 countries, 597 cities
- Total inventory table holds 4,581 inventories of covering 1,000 movies of 16 film categories released in year 2006
- The rental table holds rental date transactions from 2005 May- 2005 Aug & 2006 Feb & rental return date from 2005 May- 2005 Sep
- The payment tabe holds payment transaction date from 2007 Feb- 2007 May
- There are in total 16, 044 rental transactions and 14,596 payment transactions

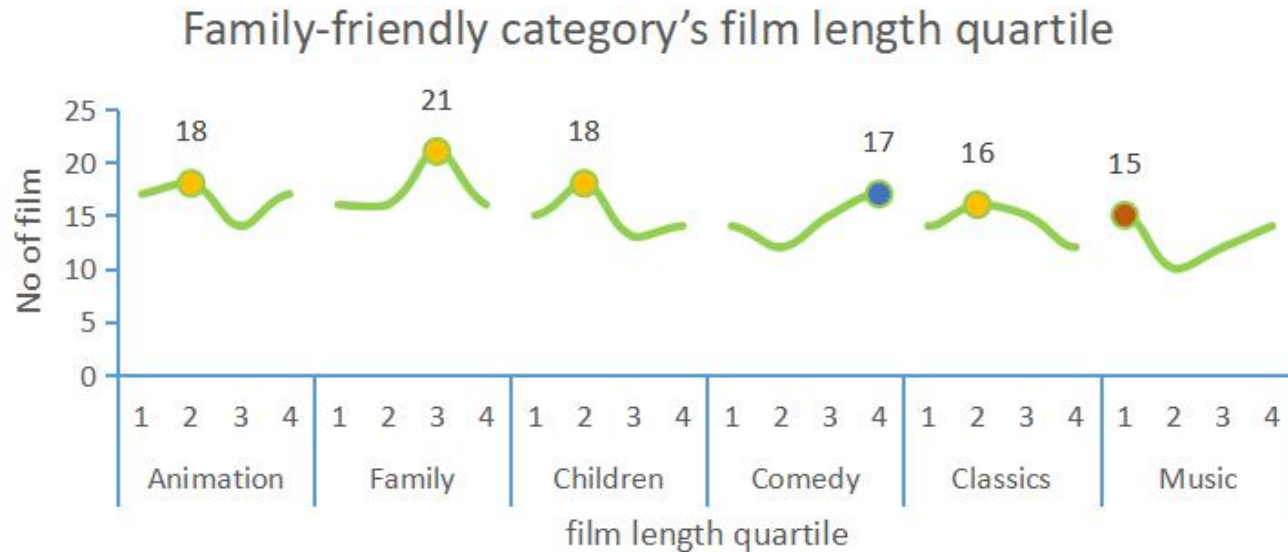# Q1 The frequency of family friendly film category is rented out

film category rent out count

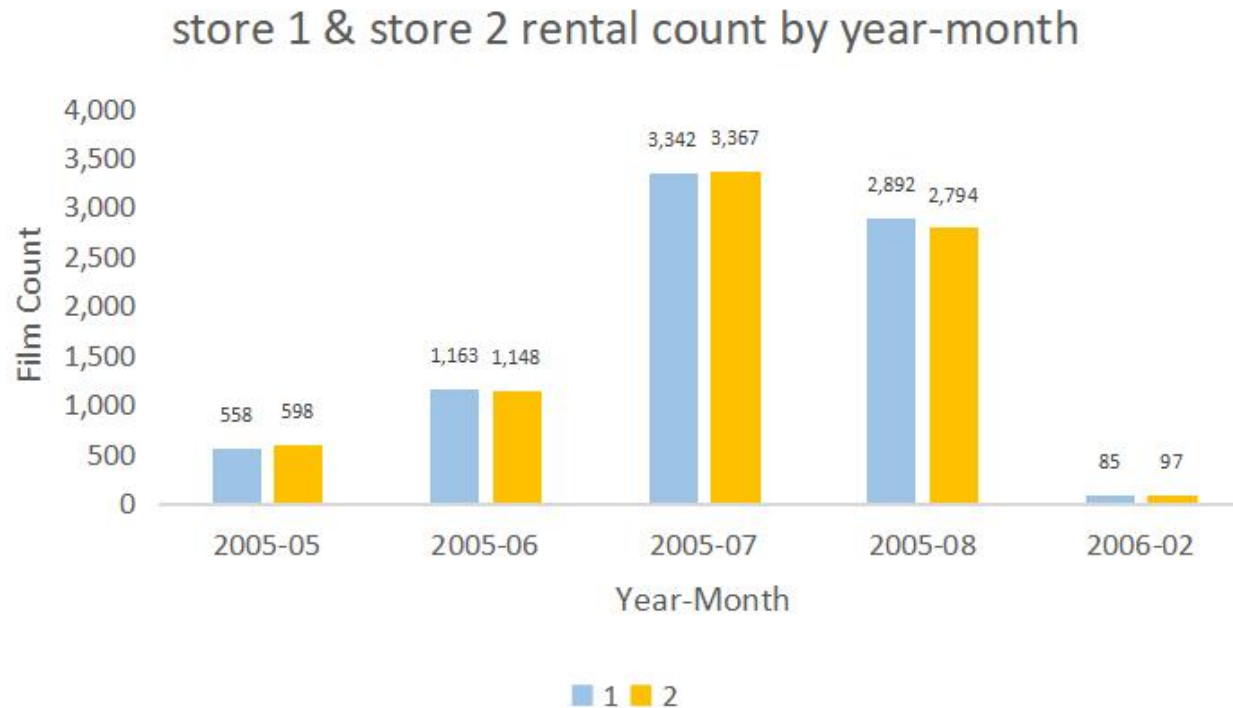> Amongst the Top 5 rent out film category, there are 2 categories from family-friendly category: Animation & Family

family-friendly film category rented-out count

1 CTE, 1 Window, 1 subquery

Q2 Family- friendly films length distribution
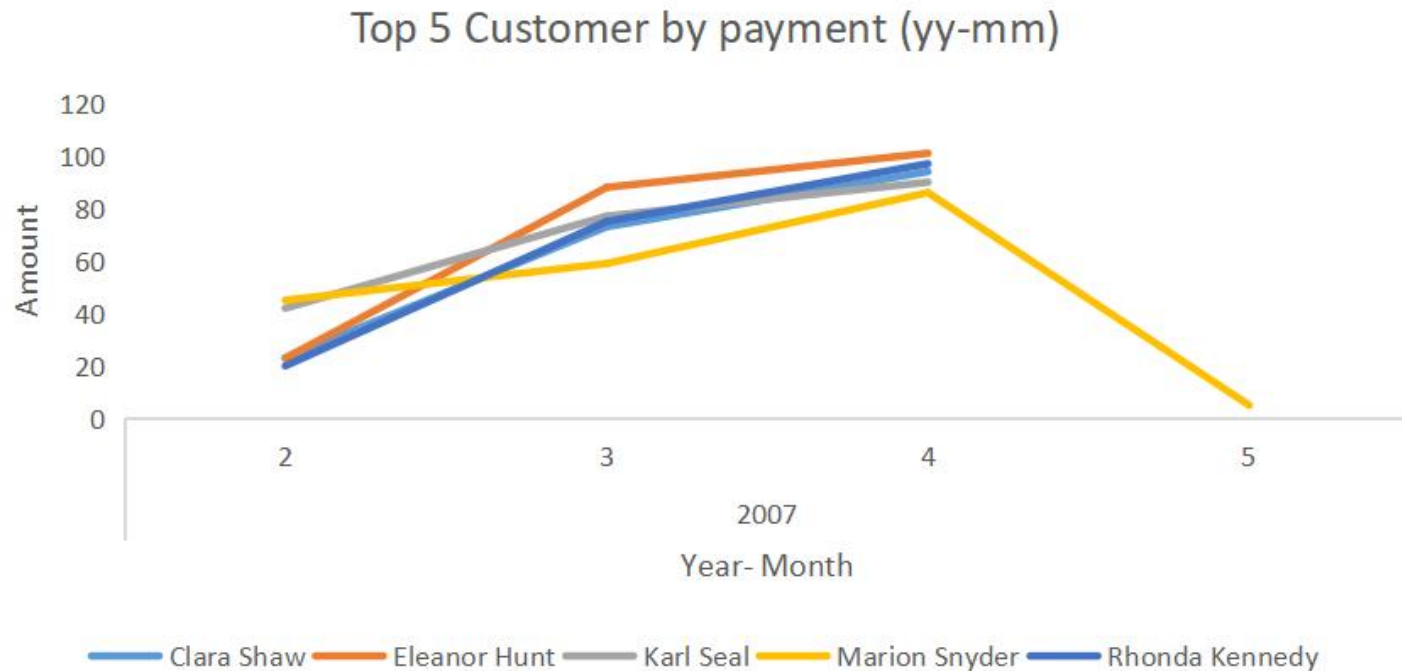
Family-friendly category's film length quartile

➢ Amongst the family friendly category films, Animation, Family, Children and Classics films length has a fair distribution between quartile 2 & 3 (average film length)

➢ Comedy film length has a higher count in quartile 4 (longer film length)

➢ Music film length has a higher count in quartile 1(shorther film lemgth)

1 Window, 1 subquery

Q3 rental count by store

store 1 & store 2 rental count by year-month

➢ the rental count by both stores is quite close to each other. No specific store shows significant difference in rental count

1 Aggregate

Q4 Top 5 Payment by payments

Top 5 Customer by payment (yy-mm)

- ➢ All Top 5 customer by payment made highest payment in 2007 Apr
- ➢ Only Marion Snyder has made payment in 2007 May

1 subquery, 1 Aggregate