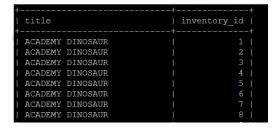
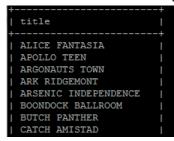
Joins Exercise 6-1

Using sakila database - Checkpoint Lab

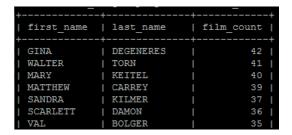
- 1. Get a list of all film titles and their inventory number even those we don't have.
 - You might like to limit the output to 200 to check you have everything looking like this



- 2. Which films do we not have in stock?
 - > There are 42 records beginning with:



3. List the number of films in which each actor has featured (sort the output in descending order of the number of films)

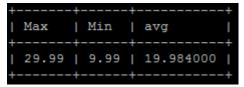


Techniques from this week

4. The store uses a formula to calculate the return-on-investment (or ROI) which is (rental_rate / replacement_cost * 100). List the films, rental replacement cost and ROI which have an ROI more than 10. Order by ROI. *Only have the formula once in the query*

+	+	+	+	+
title	ren	tal_rate rep	lacement_cost roi	
+	+	+	+	+
ARIZONA BANG		2.99	28.99 10.3139	01
MONSTER SPARTACUS		2.99	28.99 10.3139	01
ICE CROSSING		2.99	28.99 10.3139	01
FOREVER CANDIDATE		2.99	28.99 10.3139	01
SEABISCUIT PUNK		2.99	28.99 10.3139	01
RIDER CADDYSHACK		2.99	28.99 10.3139	01
ZOOLANDER FICTION		2.99	28.99 10.3139	01

5. List the maximum, minimum and average film replacement cost using subselects in the select clause only (do not use a FROM clause in the main query) – yes this is silly.



Student Database on SQLite

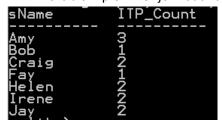
Techniques from earlier this week

Not trivial, you'll have to work on these.

- 6. List the students as pairs who come from the same sized high school. Order by school size.
 - > Only list one pair of each student e.g. if you have Alice and Bob in a record don't also list Bob and Alice (unless they are different students we have two different AMY's).
 - ➤ Work through this in stages removing redundant pairs is the last step. You might like to display more information while developing the query (e.g. sid)



- 7. List each student that has made an application and the number of ITP's they have applied to.
 - This is a simple inner join but I did use something introduced in passing today to get this.

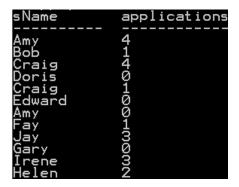


Subqueries and Outer Joins

8. Which students have not applied anywhere?



9. List a count of the number of applications made by each student



10. List the number of institutions that each student has applied to:



11. How many students have applied to each institution?

