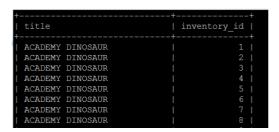
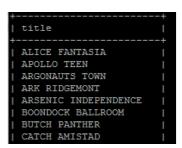
Joins Exercise 6-1

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

_			_		
+	٠		+		+
first name	ı	last name	film cou	ınt	т
· –	į.				÷
GINA		DEGENERES		42	
•					
WALTER	L	TORN		41	
MARY		KEITEL	l	40	
MATTHEW		CARREY	I	39	
SANDRA		KILMER	I	37	
SCARLETT		DAMON	I	36	
VAL	ı	BOLGER	I	35	Ī

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	901
MONSTER SPARTACUS		2.99	28.99 10.3139	901
ICE CROSSING		2.99	28.99 10.3139	901
FOREVER CANDIDATE		2.99	28.99 10.3139	901
SEABISCUIT PUNK		2.99	28.99 10.3139	901
RIDER CADDYSHACK		2.99	28.99 10.3139	901
ZOOLANDER FICTION		2.99	28.99 10.3139	901

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.

+	+	++ avg
29.99	9.99	19.984000
+		

Student Database on SQLite *Techniques*

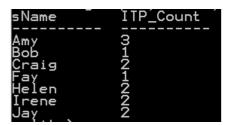
from earlier this week

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)

```
Student1 Student2 School Size
Gary Helen 800
Amy Doris 1000
Amy Amy 1000
Doris Amy 1000
Bob Jay 1500
Craig Edward 2000
```

7. List each student that has made an application and the number of ITP's they have applied to.



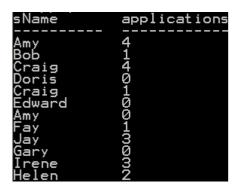
This is a simple inner join but I did use something introduced in passing today to get this.

Subqueries and Outer Joins

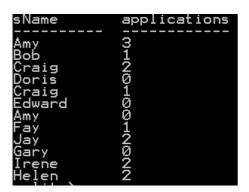
8. Which students have not applied anywhere?



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?

