Lab SQL Subqueries 3.5

-- 1. How many copies of the film _Hunchback Impossible_ exist in the inventory system?

	Copies
▶	6

-- 2. List all films whose length is longer than the average of all the films.

	title	length
▶	DUCK RACER	116
	INSTINCT AIRPORT	116
	MADIGAN DORADO	116
	WORDS HUNTER	116
	AFFAIR PREJUDICE	117
	CHAMBER ITALIAN	117
	GRAFFITI LOVE	117

-- 3. Use subqueries to display all actors who appear in the film _Alone Trip_.

	Actor
▶	ED CHASE
	KARL BERRY
	UMA WOOD
	WOODY JOLIE
	SPENCER DEPP
	CHRIS DEPP
	LAURENCE BULLOCK

-- 4. Sales have been lagging among young families, and you wish to target all family movies for a promotion. Identify all movies categorized as family films.

	title
▶	AFRICAN EGG
	APACHE DIVINE
	ATLANTIS CAUSE
	BAKED CLEOPATRA
	BANG KWAI
	BEDAZZLED MARRIED
	BILKO ANONYMOUS

-- 5. Get name and email from customers from Canada using subqueries. Do the same with joins. Note that to create a join, you will have to identify the correct tables with their primary keys and foreign keys, that will help you get the relevant information.

Customer_Name	email
DERRICK BOURQUE	DERRICK.BOURQUE@sakilacustomer.org
DARRELL POWER	DARRELL.POWER@sakilacustomer.org
LORETTA CARPENTER	LORETTA.CARPENTER@sakilacustomer.org
CURTIS IRBY	CURTIS.IRBY@sakilacustomer.org
TROY QUIGLEY	TROY.QUIGLEY@sakilacustomer.org

-- 6. Which are films starred by the most prolific actor? Most prolific actor is defined as the actor that has acted in the most number of films. First you will have to find the most prolific actor and then use that actor_id to find the different films that he/she starred.
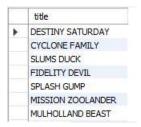-- get the most prolific author

actor_id
107

-- now get the films starred by the most prolific actor

title
BED HIGHBALL
CALENDAR GUNFIGHT
CHAMBER ITALIAN
CHAPLIN LICENSE
CHARIOTS CONSPIRACY
CLUELESS BUCKET
COLDBLOODED DARLING

-- 7. Films rented by most profitable customer. You can use the customer table and payment table to find the most profitable customer ie the customer that has made the largest sum of payments
-- most profitable customer

customer_id
526

-- films rented by most profitable customer

title
DESTINY SATURDAY
CYCLONE FAMILY
SLUMS DUCK
FIDELITY DEVIL
SPLASH GUMP
MISSION ZOOLANDER
MULHOLLAND BEAST

-- 8. Get the `client_id` and the `total_amount_spent` of those clients who spent more than the average of the `total_amount` spent by each client.
-- total payment by customer

customer_id	Customer_total_payment
1	118.68
2	128.73
3	135.74
4	81.78
5	144.62
6	93.72
7	151.67

-- average customer total payment

Average
112.53

-- customers that spent more than the average and how much they paid

customer_id	Customer_total_spent
161	112.70
256	112.70
441	112.72
407	112.73
327	112.74
63	112.75
590	112.75