### Assignment: SQL #1

#### Getting Data out of the Database

#### Questions

1. What is the rental rate and replacement cost for the film “Samurai Lion”?

```sql
SELECT rental_rate, replacement_cost
FROM film
WHERE title = 'Samurai Lion';
```

<table>
<thead>
<tr>
<th>Rental rate</th>
<th>Replacement cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$2.99</td>
<td>$21.99</td>
</tr>
</tbody>
</table>

2. What are the special features for the film “Knock Warlock”?

```sql
SELECT special_features
FROM film
WHERE title = 'Knock Warlock';
```

- Trailers

3. What are the most popular last names among the actors in the database?

```sql
SELECT last_name, COUNT(last_name)
FROM actor
GROUP BY last_name
ORDER BY COUNT(*) DESC;
```

<table>
<thead>
<tr>
<th>Last Name</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kilmer</td>
<td>5</td>
</tr>
<tr>
<td>Nolte</td>
<td>4</td>
</tr>
<tr>
<td>Temple</td>
<td>4</td>
</tr>
</tbody>
</table>

4. Which movies are the least expensive to rent (on average) with regard to rating?

```sql
SELECT rating, avg(rental_rate)
FROM film
GROUP BY rating
ORDER BY AVG(rental_rate) ASC;
```

- “G” movies cheapest

5. How many R movies mention a ‘monkey’ in their description?

(Hint: use WHERE...LIKE with a wildcard. Remember, %dog% will match any value containing “dog”)

```sql
SELECT COUNT(title)
FROM film
WHERE rating = 'R' AND description LIKE '%monkey%';
```

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6. Who were the stars of the movie “King Evolution”?

```sql
SELECT first_name, last_name
FROM film, actor, film_actor
WHERE actor.actor_id = film_actor.actor_id
AND film.film_id = film_actor.film_id AND
film.title = 'King Evolution';
```

- Penelope Guiness, Lucille Tracey, Burt Dukakis, Cuba Allen, Renee Ball, Mary Keitel
7. What is the longest PG movie in Mandarin? And how long is it?
(Hint: Don’t use the MAX function in the SELECT statement. It will give you the wrong answer.)

| SELECT title, length, rating, `name` FROM `film`, `language` WHERE rating = 'PG' AND `name` = 'Mandarin' ORDER BY length DESC; | Worst Banger – 185 |

8. Who has starred in movies in Mandarin? (create a query to get them all, but only list the first five)

| SELECT first_name, last_name FROM moviedb.actor, moviedb.film, moviedb.film_actor, moviedb.language WHERE actor.actor_id = film_actor.actor_id AND film_actor.film_id = film.film_id AND film.language_id = language.language_id AND language.name = 'Mandarin'; | Carmen Hunt, Walter Torn, Ed Mansfield, Ewan Gooding, Ian Tandy |

9. Who has rented the least movies? How many movies did they rent?

| SELECT first_name, last_name, COUNT(*) FROM customer, rental, inventory WHERE inventory.inventory_id = rental.inventory_id AND rental.customer_id = customer.customer_id GROUP BY customer.customer_id ORDER BY COUNT(*) ASC; | Brian Wyman – 12 |

10. What was the longest movie starring Ben Harris? (Hint: Don’t use the MAX function in the SELECT statement. It will give you the wrong answer.)

| SELECT length, title, first_name, last_name FROM actor, film, film_actor WHERE actor.actor_id = film_actor.actor_id AND film.film_id = film_actor.film_id AND first_name = 'Ben' AND last_name = 'Harris' ORDER BY length DESC; | Sorority Queen – 184 |