**Matthew Abraham**

**ANSWER SHEET**

**Assignment #3: SQL – Advanced Queries - Getting Data out of the Database**

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| Question | | Query | Answer |
| 1 | How many times has each language been used in films? Return the value for **all six languages.** | SELECT name, COUNT(film\_id) FROM moviedb.language  LEFT JOIN moviedb.film ON language.language\_id = film.language\_id  GROUP BY name | |  |  | | --- | --- | | English | 887 | | French | 36 | | German | 0 | | Italian | 0 | | Japanese | 2 | | Mandarin | 75 | |
| 2 | How many actors stared in the film titled “BREAKING HOME”? | SELECT COUNT(\*)  FROM moviedb.film  JOIN moviedb.film\_actor ON film.film\_id = film\_actor.film\_id  JOIN moviedb.actor ON actor.actor\_id = film\_actor.actor\_id  WHERE title = "BREAKING HOME" | 6 |
| 3 | Who has rented movies in Japanese language? Return only the first five distinct results in alphabetical order by last name. | SELECT DISTINCT first\_name, last\_name  FROM moviedb.customer  JOIN moviedb.rental ON customer.customer\_id = rental.customer\_id  JOIN moviedb.inventory ON rental.inventory\_id = inventory.inventory\_id  JOIN moviedb.film ON inventory.film\_id = film.film\_id  JOIN moviedb.language ON film.language\_id = language.language\_id  WHERE name = "Japanese"  ORDER BY last\_name LIMIT 5 | |  |  | | --- | --- | | CLAYTON | BARBEE | | DERRICK | BOURQUE | | GUY | BROWNLEE | | CLINTON | BUFORD | | LEROY | BUSTAMANTE | |
| 4 | How many different districts exist in the address table? | SELECT COUNT(DISTINCT district)  FROM moviedb.address | 378 |
| 5 | What actor has appeared in the most movies? How many movies did s/he appear in? | SELECT first\_name, last\_name, COUNT(\*)  FROM moviedb.actor  JOIN moviedb.film\_actor ON actor.actor\_id = film\_actor.actor\_id  GROUP BY actor.actor\_id  ORDER BY COUNT(\*) DESC LIMIT 1 | |  |  |  | | --- | --- | --- | | WOODY | HOFFMAN | 15 | |
| 6 | What are the store ids in the Georgia district and how many rentals are recorded for each store? Display the district, store\_id, and the number of rentals. | SELECT district, inventory.store\_id, COUNT(\*)  FROM moviedb.address  JOIN moviedb.customer ON address.address\_id = customer.address\_id  JOIN moviedb.rental ON customer.customer\_id = rental.customer\_id  JOIN moviedb.inventory ON rental.inventory\_id = inventory.inventory\_id  WHERE district = "Georgia"  GROUP BY inventory.store\_id | |  |  |  | | --- | --- | --- | | district | Store\_id | COUNT(\*) | | Georgia | 1 | 8 | | Georgia | 2 | 19 | |
| 7 | What is (are) the PG-rated movie(s) with the largest replacement cost at store 2? And how much is it (are they)? | SELECT title, replacement\_cost  FROM moviedb.film  JOIN moviedb.inventory ON film.film\_id = inventory.film\_id  WHERE rating = 'PG' AND store\_id = 2 AND replacement\_cost = (SELECT max(film.replacement\_cost) FROM moviedb.film  JOIN moviedb.inventory ON film.film\_id = inventory.film\_id  WHERE inventory.store\_id=2 AND rating = ‘PG’) | |  |  | | --- | --- | | GRAFFITI LOVE | 29.99 | | HOLLYWOOD ANONYMOUS | 29.99 | | OSCAR GOLD | 29.99 | |
| 8 | What is (are) the title(s) and the rental rate of the movie(s) that has (have) the least expensive rental rate and acted by Emily Dee? (Hint: There can be more than one movie) | SELECT title, rental\_rate  FROM moviedb.film  JOIN moviedb.film\_actor ON film.film\_id = film\_actor.film\_id  JOIN moviedb.actor ON film\_actor.actor\_id = actor.actor\_id  WHERE first\_name = 'Emily' AND last\_name = 'Dee' AND  rental\_rate = (SELECT min(rental\_rate)  FROM moviedb.film  JOIN moviedb.film\_actor ON film.film\_id = film\_actor.film\_id  JOIN moviedb.actor ON film\_actor.actor\_id = actor.actor\_id  WHERE first\_name = 'Emily' AND last\_name = 'Dee') | |  |  | | --- | --- | | ANONYMOUS HUMAN | 0.99 | | CHRISTMAS MOONSHINE | 0.99 | | REBEL AIRPORT | 0.99 | |
| 9 | What is the average of the average rental rate for each movie rating? | SELECT avg((SELECT avg(rental\_rate)  FROM moviedb.film))  FROM moviedb.film | 2.9800000000 |