**In-Class Exercise: SQL #1  
Getting Information out of a Database (SOLUTION)**

1. What is the title and length of the longest movie in the database (assume there’s only one with the longest value and use LIMIT)?

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| **SELECT film.title, film.length FROM moviedb.film**  **ORDER BY film.length DESC LIMIT 1;** | **CHICAGO NORTH 185** |

Now assume there could be more than one movie with the longest value and use a subselect with the MAX() function to find the movies with the greatest length.

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| **SELECT film.title,film.length FROM moviedb.film**  **WHERE film.length = (**  **SELECT MAX(film.length) FROM moviedb.film**  **);** | **CHICAGO NORTH 185**  **CONTROL ANTHEM 185**  **DARN FORRESTER 185**  **GANGS PRIDE 185**  **HOME PITY 185**  **MUSCLE BRIGHT 185**  **POND SEATTLE 185**  **SOLDIERS EVOLUTION 185**  **SWEET BROTHERHOOD 185**  **WORST BANGER 185** |

1. Are R movies, on average, longer than PG movies? Prove it! ***(HINT: Use GROUP BY)***

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| --- | --- |
| **SELECT film.rating, AVG(film.length)  FROM moviedb.film  GROUP BY film.rating;** | **Yes. PG = 112 minutes versus R = 118 minutes** |

1. How many movies are in French?  
   ***(HINT: The name field in the language table contains the film language names.)***

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| **SELECT COUNT(\*) FROM moviedb.film, moviedb.`language`**  **WHERE film.language\_id = `language`.language\_id**  **AND moviedb.`language`.name = 'French';** | **36** |

1. In which films did Sandra Peck star (only return the first five)?

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| **SELECT film.title**  **FROM moviedb.actor, moviedb.film, moviedb.film\_actor**  **WHERE actor.actor\_id = film\_actor.actor\_id**  **AND film.film\_id = film\_actor.film\_id**  **AND actor.first\_name='Sandra' AND actor.last\_name='Peck'**  **LIMIT 5;** | **ACADEMY DINOSAUR**  **BANG KWAI**  **BEETHOVEN EXORCIST**  **BEVERLY OUTLAW**  **BIRDS PERDITION** |

1. How many movies has the customer Adam Gooch rented?

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| --- | --- |
| **SELECT COUNT(\*) FROM moviedb.customer, moviedb.rental**  **WHERE rental.customer\_id = customer.customer\_id**  **AND customer.first\_name = 'Adam'**  **AND customer.last\_name = 'Gooch';** | **22** |

1. How many customers have a first name that starts with ‘A’?

|  |  |
| --- | --- |
| **SELECT COUNT(first\_name)**  **FROM moviedb.customer**  **WHERE customer.first\_name LIKE 'A%';** | **44** |

1. How many different ratings are there in Film table?

*Display: number of different ratings*

|  |  |
| --- | --- |
| **SELECT COUNT(\*) FROM (**  **SELECT DISTINCT rating FROM moviedb.film**  **) AS temp1;** | **5** |