**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** |