SQL STATEMENT FUNDAMENTALS

SELECT DISTINCT rental\_rate FROM film

SELECT DISTINCT rating FROM film

COUNT

SELECT COUNT(\*) FROM payment;

SELECT COUNT(DISTINCT amount) FROM payment;

SELECT WHERE

* Conditions on columns for the row that needs to be returned

SELECT \* FROM customer WHERE first\_name = 'Jared'

SELECT COUNT(title) FROM film

WHERE rental\_rate > 4 AND replacement\_cost >= 19.99

AND rating = 'R';

SELECT email FROM customer

WHERE first\_name = 'Nancy' AND last\_name = 'Thomas';

ORDER BY  
  
SELECT column1,column2 FROM table ORDER BY column1 ASC/DESC

SELECT store\_id,first\_name,last\_name FROM customer

ORDER BY store\_id,first\_name;

LIMIT

Use this to limit the no. of rows returned

SELECT customer\_id FROM payment

ORDER BY payment\_date

LIMIT 10;

BETWEEN

YYYY-MM-DD

SELECT \* FROM payment

WHERE payment\_date BETWEEN '2007-02-01' AND '2007-02-15';

IN

Create a condition that checks to see if a value is included in the list of multiple options

Eg

SELECT \* FROM customer

WHERE first\_name IN ('John','Jake','Julie');

LIKE and ILIKE

Like – pattern matching using

* % (matches any sequence of characters) (A% / %a)
* \_ (matches any single character) (eg Version#\_ \_)

ILIKE is case insensitive

EG:

\_ her %

Cheryl

Theresa

Sherri

SELECT \* FROM customer

WHERE first\_name LIKE 'J%'

AND last\_name LIKE 'S%';

SELECT \* FROM customer

WHERE first\_name LIKE 'A%' AND last\_name NOT LIKE 'B%'

ORDER BY last\_name;

GENERAL CHALLENGE 1

**1. How many payment transactions were greater than $5.00**

ANS

SELECT COUNT(\*) FROM payment

WHERE amount > 5.00;

**2. how many actors have a first name that starts with the letter P?**

SELECT COUNT(\*) FROM actor

WHERE first\_name LIKE 'P%';

**3. how many unique districts are our customers from?**

SELECT COUNT(DISTINCT district) FROM address

**4. Retrieve the list of names for those distinct districts from the previous question**

SELECT DISTINCT district FROM address

**5. how many films have a rating of R and a replacement cost between $5 and $15?**

SELECT COUNT(\*) FROM film

WHERE rating = 'R'

AND replacement\_cost BETWEEN 5 AND 15;

**6. how many films have the word Truman somewhere in the title?**

SELECT COUNT(\*) FROM film

WHERE title LIKE '%Truman%';