Sql

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| Command | Result | Example result |
| SELECT \* FROM table; | gives all columns from the table |  |
| SELECT column1 FROM table; | gives all column1 from the table |  |
| SELECT DISTINCT (column1) FROM table; | gives all distinct values from the table such as | (all types of ratings in American film society, eg: pg, g etc |
| SELECT COUNT (DISTINCT (column1)) FROM table; | gives how many distinct values from the table exists. such as | 5 types of ratings American film society) |
| SELECT \* FROM customer  Where first\_name='David'; | Returns all customer information relating to the first\_name specified |  |
| select \* from film  where rental\_rate>4; | Returns all films that have rental rate > 4 dollars |  |
| select count(title) from film  where rental\_rate>4 and replacement\_cost>20 and rating='R'; | Counts the number of titles that fill the conditions |  |
| select \* From customer  ORDER BY store\_id ASC | Shows all customer info that is sorted by store id |  |
| select store\_id,first\_name,last\_name From customer  ORDER BY store\_id ASC,first\_name DESC; | Shows customer info (store id, first name and last name only) that is sorted by store id in ascending format and then first name in descending format. |  |
| SELECT \* From payment  ORDER BY payment\_date DESC  LIMIT 5; | 5 most recent result based on payment date |  |
| SELECT \* From payment  where amount!=0  ORDER BY payment\_date DESC  LIMIT 5; | 5 most recent result based on payment date that are not 0 |  |
| SELECT (title,length) From film  where length between 48 and 50  ORDER BY length ASC | Returns title and length of films that are 48 mins to 50 mins |  |
| SELECT (title,length) From film  where length>=48 AND length<=50  ORDER BY length ASC; |  |
| WHERE amount IN (0.99,1.98,1.99); | The commas mean OR and IN checks if the values are = or not | Note, for these statements numeric values can be given directly and string value must be give under ‘’ |
| WHERE amount NOT IN (0.99,1.98,1.99); | Opposite of the above |
| SELECT \* FROM customer  WHERE first\_name LIKE 'J%' AND last\_name ILIKE 'e%'; | Shows list of names that has first name and last name with specified strings | LIKE 🡪 case sensitive  ILIKE 🡪 not case sensitive  %--> any number of characters regardless of where it is places  \_ 🡪 1 character where it is placed. These 2 are called wild cards which refer to unknown characters numeric or string |
| SELECT \* FROM customer  WHERE last\_name ILIKE '\_e%'; | Returns list of names that have e as the 2nd letter in their last names, E can be followed or not followed by anything but only has one character before it. |
| SELECT \* FROM customer  WHERE last\_name ILIKE '%e%'; | Lists any last names that contains E at all. |

General challenge:

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| Questions | Answers |
| How many payment transactions were greater than $5.00? | SELECT count(\*) FROM payment  WHERE amount>5; |
| How many actors have a first name that starts with the letter P? | SELECT count(\*) FROM actor  WHERE first\_name ILIKE 'p%' |
| How many unique districts are our customers from? | SELECT COUNT(DISTINCT(district)) FROM address; |
| Retrieve the list of names for those distinct districts from the previous question. | SELECT DISTINCT(district) FROM address; |
| 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; |
| How many films have the word Truman somewhere in the title? | SELECT count(\*) FROM film  WHERE title ILIKE ('&truman%'); |