**Group lab completed by:**

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WORKSHEET

1. What types of information does Firefox manage using SQLite? Briefly explain

the contents of two or three databases.

The places.sqlite database seems to contain information related to bookmarks and keywords that are stored by Firefox. This includes website visit history, the amount of times the site has been visited, parent sites, and other history as well as places that have been saved. It stores information regarding these places including their ID, name, keywords, and so forth.

The cookies.sqlite database appears to contain little information tokens that have been stored onto the browser by various sites, even ones that I visited a long time ago and only for a few seconds. These include some sort of “value” which is likely a key relating to some mix of numbers and letters, the cookie’s host, the first and most recent access/creation of the cookie, and several other true/false distinctions about the cookie.

2. In what database and tables are your bookmarks stored? Why do you think

Firefox stores the title and url separately?

Bookmarks are stored in places.sqlite, within several tables including moz\_bookmarks, moz\_bookmarks\_deleted, and so forth. I think Firefox probably stores the title and URL separately because the user can set the title to be whatever they want, including duplicates, whereas the URL will remain unique to the site that the bookmark refers to.

3. Write an SQL statement that selects your bookmarks. For each one, display

only the title, url, date added (as an integer), and visit count.

SELECT b.title, b.dateAdded, p.visit\_count, p.url

FROM moz\_bookmarks b, moz\_places p

WHERE b.id = p.id;

4. Write an SQL statement that lists the base domain, name, and value for each

of your cookies in order of expiration date.

SELECT c.baseDomain, c.name, c.value

FROM moz\_cookies c

ORDER BY expiry DESC;

5. Write an SQL statement to show how many cookies you have for each domain.

Note that you will need to use the "count" function instead of sum.

SELECT baseDomain, count(baseDomain)

FROM moz\_cookies

GROUP BY baseDomain

ORDER BY count(baseDomain) DESC;

6. What are the top five movies since the year 2000, in terms of adjusted

gross income?

SELECT title

FROM movie

WHERE year>=2000

ORDER BY adjusted DESC limit 5;

Avatar, Marvel’s The Avengers, The Dark Night, Shrek 2, Spider-Man

7. What are the title, author, and year of books from Russia in the top 100?

(For convenience, you can right-click the results and "Copy Rows as CSV.")

SELECT title, author, year

FROM book

WHERE country="Russia"

|  |  |  |
| --- | --- | --- |
| **title** | **author** | **year** |
| Stories | Anton Chekhov | 1886 |
| Crime and Punishment | Fyodor Dostoevsky | 1866 |
| The Idiot | Fyodor Dostoevsky | 1869 |
| The Possessed | Fyodor Dostoevsky | 1872 |
| The Brothers Karamazov | Fyodor Dostoevsky | 1880 |
| Dead Souls | Nikolai Gogol | 1842 |
| War and Peace | Leo Tolstoy | 1865?1869 |
| Anna Karenina | Leo Tolstoy | 1877 |
| The Death of Ivan Ilyich | Leo Tolstoy | 1886 |

8. What are the names and symbols of the periodic elements with an atomic mass

of more than 280? Display the results from lightest to heaviest.

SELECT name, symbol

FROM periodic

WHERE mass > 280

ORDER BY mass;

|  |  |
| --- | --- |
| **name** | **symbol** |
| Ununtrium | Uut |
| Ununbium | Uub |
| Ununpentium | Uup |
| Ununquadium | Uuq |
| Ununhexium | Uuh |
| Ununoctium | Uuo |

9. Which of the top 15 songs were featured in the top 100 movies? (Hint: Figure

out how to join the two tables, and then use AND clauses to filter by rank.)

SELECT song.title

FROM song JOIN movie ON song.film = movie.title

WHERE song.rank<=15 AND movie.rank<=100;

|  |
| --- |
| **title** |
| Mrs. Robinson |
| When You Wish upon a Star |
| The Sound of Music |
| My Heart Will Go On |

10. Do you Python Lab

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