WORKSHEET

1. What types of information does Firefox manage using SQLite? Briefly explain the contents of two or three databases.

Firefox stores user data. places.sqlite stores browsing history, like all of the websites and pages you’ve been to on Firefox, cookies.sqlite stores the cookies and permissions you’ve allowed on different sites, and formhistory.sqlite stores what you’ve entered into the search bar.

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

Firefox stores the title and url separately?

They’re stored in places.sqlite, under the moz\_bookmarks table. The bookmark URLs are stored in a backup folder separately. I think they’re stored separately because they’re two different forms of data and can’t both be stored within SQLite. SQLite saves user-specific data, so the fact that I bookmarked the site while the actual site is publicly accessible and isn’t specific to me.

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 title, dateAdded, visit\_count

FROM moz\_bookmarks, moz\_places

WHERE moz\_bookmarks.place\_id = moz\_places.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 host, name, value

FROM moz\_cookies

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 host, count(visit\_count)

FROM moz\_cookies, moz\_places

GROUP BY host

ORDER BY count(visit\_count) DESC

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

gross income?

SELECT title, year, adjusted

FROM movie

WHERE year >= 2000

ORDER BY adjusted DESC LIMIT 5

(results on next page)

| Avatar | 2009 | 801.5 |
| --- | --- | --- |
| Marvel's The Avengers | 2012 | 621.79 |
| The Dark Knight | 2008 | 591.31 |
| Shrek 2 | 2004 | 564.14 |
| Spider-Man | 2002 | 552.66 |

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, language

FROM book

WHERE country = ‘Russia’

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

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, mass

FROM periodic

WHERE mass > 280

ORDER BY mass

(results on next page)

| Ununtrium | Uut | 284.0 |
| --- | --- | --- |
| Ununbium | Uub | 285.0 |
| Ununpentium | Uup | 288.0 |
| Ununquadium | Uuq | 289.0 |
| Ununhexium | Uuh | 292.0 |
| Ununoctium | Uuo | 294.0 |

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.rank, song.title, song.film

FROM song

JOIN movie ON song.title = movie.title AND song.rank <= 15

| 5 | White Christmas | Holiday Inn |
| --- | --- | --- |
| 10 | The Sound of Music | The Sound of Music |

10. Do your Python Lab

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