Consider the following hypothetical database schema. Suppose all bars in the US have a unique bar license number (BNO) and each drinker is identified by a unique drivers’ license number (DLicNo). Every time a drinker represented by DLicNo goes to a bar represented by BNO, the information is recorded in the database. The number of times a drinker visits a particular bar can be obtained by examining the VISIT relation. The VISIT relation has the DLicNo and the BNO pair only if the drinker represented by DLicNo has visited the bar represented by BNO at least once. The relation LIKES represents all the beers that a particular drinker likes and the relation SERVES represents all the beers a particular bar serves.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BAR | BNO | BarName | BCity | BState |
|  | L22174 | Murphy’s | Towson | MD |
|  | L31927 | Joe’s | Lutherville | MD |
|  | L59871 | BatBar | Georgetown | DC |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| DRINKER | DLicNo | DName | DCity | Age |
|  | AK117229 | Barak Obama | Honolulu | 53 |
|  | UU761326 | Michelle Obama | Chicago | 51 |
|  | ZM193312 | Joe Biden | Wilmington | 72 |
|  | MD891129 | Donald Trump | New York | 62 |
|  | YU134618 | Carley Fiorina | San Francisco | 61 |

|  |  |  |  |
| --- | --- | --- | --- |
| VISIT | DLicNo | BNO | NumberOfTimes |
|  | AK117229 | L22174 | 7 |
|  | MD891129 | L59871 | 1 |
|  | AK117229 | L59871 | 2 |

|  |  |  |
| --- | --- | --- |
| LIKES | BNO | BeerName |
|  | AK117229 | Bud Lite |
|  | AK117229 | Rolling Rock |
|  | MD891129 | Sam Adams |

|  |  |  |
| --- | --- | --- |
| SERVES | BNO | BeerName |
|  | L22174 | Bud Lite |
|  | L59871 | Bud Lite |
|  | L59871 | Rolling Rock |

1. List the name of every bar that Donald Trump has visited.

1. List the names of bars in Maryland that are not in Baltimore and do not serve Bud Lite.

1. List the names of all people under 30 who have visited at least one bar in Georgetown and like Bud Lite.
2. List the name and age of everyone who has visited at least one bar that Donald Trump has visited.
3. List the names and ages of all people who have visited every bar in Towson.
4. List the names and ages of people who have visted every bary that Donald Trump has visited and have never visted a bar that Carley Fiorina has visited.
5. List the name of every bar that serves a beer that Donald Trump doesn’t like.
6. List the name of every bar in Toswon that serves no beer that is served in a Bar in Timonium.