HW4 – Final Exam Questions

1. Consider the following schema:

Doctors (did: integer, docName: string)

Examine (did: integer, pid: integer, fee: real)

Persons (pid: integer, personName: string, age: integer)

Related instances as follows:

Doctors:

|  |  |
| --- | --- |
| did | docName |
| 5 | Dr. Sampson |
| 7 | Dr. Anderson |

Examine:

|  |  |  |
| --- | --- | --- |
| did | pid | fee |
| 7 | 6 | 250 |
| 7 | 12 | 120 |
| 7 | 7 | 50 |
| 5 | 9 | 450 |
| 5 | 6 | 80 |

Persons:

|  |  |  |
| --- | --- | --- |
| pid | personName | age |
| 9 | Billybob | 65 |
| 12 | Joe | 24 |
| 7 | Earl | 58 |
| 6 | Joyce | 47 |

Now, Determine the meaning of the following SQL query as well as the output.

SELECT E.pid

FROM Examine E, Doctors D

WHERE E.pid = D.did AND E.docName = ‘Dr. Sampson’;

INTERSECT

SELECT E.pid

FROM Examine E, Doctors D

WHERE E.pid = D.did AND E.docName = ‘Dr. Anderson’;

a.

Meaning: Find the name(s) of the persons that were examined by both Dr. Sampson and Dr. Anderson

Output: Joyce

b.

Meaning: Find the pid(s) of the persons that were examined by either Dr. Sampson or Dr. Anderson

Output: 9, 12, 7, 6

c. None of these

d.

Meaning: Find the pid(s) of the persons that were examined by both Dr. Sampson and Dr. Anderson

Output: 6

e.

Meaning: Find the name(s) of the persons that were examined by either Dr. Sampson or Dr. Anderson

Output: Earl, Joyce, Joe, Billybob

Answer: d