

CSCI 3410 – Quiz 3

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1
2  -- DROP SCHEMA HW_QUIZ3;
3  CREATE SCHEMA HW_QUIZ3;
4  USE HW_QUIZ3;
5
6  CREATE TABLE COMPUTER(
7      Id VARCHAR(20) PRIMARY KEY,
8      Model VARCHAR(20)
9  );
10
11 CREATE TABLE PRINTER(
12     Id VARCHAR(20) PRIMARY KEY,
13     Model VARCHAR(20)
14 );
15
16 CREATE TABLE CONNECTION(
17     Computer VARCHAR(20),
18     Printer VARCHAR(20),
19     PRIMARY KEY(Computer, Printer),
20     FOREIGN KEY (Computer) REFERENCES COMPUTER(Id),
21     FOREIGN KEY (Printer) REFERENCES PRINTER(Id)
22 );
23
24 INSERT INTO COMPUTER VALUES ('A', 'DELL A'), ('B', 'HP X'), ('C', 'ZEPTO D'), ('D', 'MAC
    ↪ Y');
25 INSERT INTO PRINTER VALUES ('12', 'HP-140'), ('13', 'HP-139'), ('14', 'HP-140'), ('15',
    ↪ 'HP-139');
26 INSERT INTO CONNECTION VALUES ('A', '12'), ('A', '13'), ('B', '13'), ('C', '14');
27
28 -- Write a query that returns the number of computer connected to the printer whose id is
    ↪ '13'.
29 SELECT COUNT(Computer) FROM CONNECTION WHERE Printer = '13';
30
31 -- Write a query that returns the number of different models of printers.
32 SELECT COUNT(DISTINCT Model) FROM PRINTER;
33
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34  -- Write a query that returns the model(s) of the printer connected to the computer whose
    ↳ id is 'A'.
35  SELECT Model FROM PRINTER, CONNECTION WHERE Computer = 'A' AND Printer = PRINTER.Id;
36
37  -- Write a query that returns the id of the computer(s) not connected to any printer.
38  SELECT Id FROM COMPUTER WHERE Id NOT IN (SELECT Computer FROM CONNECTION);
```