## Assignment1 Part B: SQL queries

2.

(a)

SELECT maker, speed FROM Product NATURAL JOIN Laptop

WHERE hd >= 30

	maker	speed
1	E	2
2	E	1.73
3	E	1.8
4	Α	2
5	Α	2.16
6	Α	2
7	В	1.83
8	F	1.6
9	F	1.6
10	G	2

(b)

SELECT model, price FROM Product NATURAL JOIN PC WHERE maker = 'B'

SELECT model, price FROM Product NATURAL JOIN Laptop WHERE maker = 'B' UNION

SELECT model, price FROM Product NATURAL JOIN Printer WHERE maker = 'B'



(c)

SELECT maker FROM Laptop NATURAL JOIN Product EXCEPT

SELECT maker FROM PC NATURAL JOIN Product



(d)

SELECT hd

FROM PC

**GROUP BY hd** 

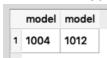
HAVING COUNT(model) >= 2;



(e)

SELECT P1.model, P2.model FROM PC P1, PC P2

WHERE P1.model < P2.model AND P1.speed = P2.speed AND P1.ram = P2.ram



(f)

**SELECT maker FROM** 

(SELECT model FROM PC WHERE speed >= 3.0

UNION

SELECT model FROM Laptop WHERE speed >= 3.0)

**NATURAL JOIN Product** 

**GROUP BY maker** 

HAVING COUNT(maker) >= 2



(g)

**SELECT DISTINCT maker** 

FROM PC NATURAL JOIN Product

WHERE speed >= 3.0



(h)

**SELECT model FROM Printer** 

WHERE price = (SELECT MAX(price) FROM printer)



(i)

**SELECT model FROM Laptop** 

WHERE speed < (SELECT MIN(speed) FROM PC)

(None returned)

```
(j)
SELECT model FROM
(SELECT model, price FROM PC
UNION
SELECT model, price
FROM Laptop
UNION
SELECT model, price
FROM Printer)
ORDER BY price DESC
LIMIT 1
   model
 1 2001
(k)
SELECT maker FROM(
((SELECT model, price FROM Printer WHERE color = "true")
NATURAL JOIN
(SELECT MIN(price) AS price
FROM (SELECT model, price FROM Printer WHERE color = "true")))
NATURAL JOIN Product)
(None returned)
(1)
SELECT DISTINCT maker
FROM PC NATURAL JOIN Product
WHERE speed = (SELECT MAX(speed) FROM PC)
AND RAM = (SELECT MIN(RAM) FROM PC)
  maker
1 B
(m)
CREATE TABLE information AS
  SELECT * FROM Laptop NATURAL JOIN Product
  SELECT * FROM PC NATURAL JOIN Product
  UNION
 SELECT type AS printer type, model, color, price FROM Printer NATURAL JOIN Product
3.
SELECT L FROM
R1 CROSS JOIN R2 CROSS JOIN R3...CROSS JOIN Rn
WHERE C
```