Part A) What PC models have a speed of at least 3.00?

```
homework2=# select model from pc where speed >= 3.00;

model

-----

1005

1006

1013

(3 rows)
```

Part B) Which manufacturers make laptops with a hard disk of at least 100GB?

```
homework2=# select maker from product join laptop on product.model = laptop.model where hd >= 100;
maker
_____
E
A
B
F
G
G
(5 rows)
```

Part C) Find the model number and price of all products (of any type) made by manufacturer B.

```
homework2=# select p.model, price from product as p join pc as pc on p.model = pc.model where maker = 'B' union select p.model, price from product as p join printer as pr on p.model = pr.model where maker = 'B';

model | price

2007 | 1429

1004 | 649

1005 | 630

1006 | 1049

(4 rows)
```

Part D) Find the model numbers of all color laser printers

```
homework2=# select model from printer where color = true;
model
-----
3001
3003
3004
3006
3007
(5 rows)
```

Part E) Find those manufacturers that sell Laptops, but not PC's.

```
homework2=# select maker from product where type = 'laptop' and maker not in (select maker from product where type = 'pc');
maker
-----
F
F
G
G
(3 rows)
```

Part F) Find those hard-disk sizes that occur in two or more PC's.

```
homework2=# select hd, count (*) from pc group by hd having count (*) > 1;
hd | count
----+----
80 | 2
160 | 2
250 | 6
(3 rows)
```

Part G) Find those pairs of PC models that have both the same speed and RAM. A pair should be listed only once; e.g., list (i; j) but not (j; i).

Part H) Find those manufacturers of at least two different computers (PC's or laptops) with speeds of at least 2.80.

```
homework2=# select maker, speed from product as p join pc as pc on p.model = pc.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 union select maker, speed from product as p join laptop as 1 on p.model = 1.model where speed >= 2.80 un
```

Part I) Find the manufacturer(s) of the computer (PC or laptop) with the highest available speed.

Part J) Find the manufacturers of PC's with at least three different speeds.

```
homework2=# select maker, count (distinct speed) as speed_total from product as p join pc as pc on p.model = pc.model group by p.maker having count (distinct speed) >= 3;

maker | speed_total

A | 3

D | 3

E | 3

(3 rows)
```

Part K) Find the manufacturers who sell exactly three different models of PC.

```
homework2=# select maker from product as p join pc as pc on p.model = pc.model group by p.maker having count (distinct pc.model) = 3;

maker

A
B
D
E
(4 rows)
```