

1. [SELECT WHERE] Find the model number, speed and hard drive capacity for all the PCs with prices below \$500.
2. Find all records from the Printer table about color printers.
3. List all printer makers.
4. [Conditionals] Find the model number, speed and hard drive capacity of PCs cheaper than \$600 having a 12x or a 24x CD drive.
5. Find all the information there is on PCs with a CD drive speed multiple of 10x.
6. [ORDER BY, functions] For each element in the PC table, calculate  $B = \text{speed} \times \text{HD}^2$  and order the answers by ascending values of B.
7. [JOIN] Print all PC models along with their maker.
8. For each maker, find the speed of laptops with a hard drive capacity of 10 Gb or higher. Result set: maker, speed.
9. Find the makers of PCs with a processor speed of 450 MHz or more.
- 10.[Aggregation] Find out the average speed of the laptops priced over \$1000.
- 11.Find out the average speed of the PCs produced by each maker. Result set: maker, speed.
- 12.[HAVING] Get the makers who produce only one product type and more than one model. Result set: maker, type.
- 13.Get hard drive capacities that are identical for two or more PCs. Result set: hd.
- 14.[UNION] Find out the models and prices for all the products (of any type) produced by maker B.
- 15.[Subqueries] Find the printer models having the highest price. Result set: model, price.
- 16.Get the laptop models that have a speed smaller than the speed of any PC. Result set: type, model, speed.

1. SELECT model, speed, hd FROM PC WHERE price < 500;
2. SELECT \* FROM Printer WHERE color='y';
3. SELECT DISTINCT maker FROM Product WHERE type='printer';
4. SELECT model, speed, hd FROM PC where price<600 and cd IN ('12x','24x');
5. SELECT \* FROM PC WHERE CD LIKE '%0x';
6. SELECT speed\*POW(hd,2)B FROM PC ORDER BY B;
7. SELECT DISTINCT model, maker FROM PC JOIN Product USING(model);
8. SELECT DISTINCT maker, speed FROM Product JOIN Laptop ON Product.model=Laptop.model where Laptop.hd>=10;
9. SELECT DISTINCT maker from Product p JOIN PC ON p.model=PC.model WHERE speed>=450
- 10.SELECT AVG(speed) FROM Laptop WHERE price>1000
- 11.SELECT maker, AVG(speed) FROM PC JOIN Product USING(model) GROUP BY maker;
- 12.SELECT maker, type FROM Product GROUP BY maker HAVING COUNT(DISTINCT type)=1 AND COUNT(model)>1;
- 13.SELECT hd FROM PC GROUP BY hd HAVING COUNT(hd)>1;

14. SELECT model, price FROM PC JOIN Product USING(model) WHERE maker='B' UNION SELECT model, price FROM Laptop JOIN Product USING(model) WHERE maker='B' UNION SELECT model, price FROM Printer JOIN Product USING(model) WHERE maker='B'
15. SELECT model, price FROM Printer WHERE price=(SELECT MAX(price) FROM Printer);
16. SELECT DISTINCT 'Laptop', model, speed FROM Laptop WHERE speed<(SELECT MIN(speed) FROM PC)