Atelier 1

Q1 :

Q2 :

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) Manufacturers ( Code INTEGER PRIMARY KEY [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL, Name [CHAR](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(50) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL );

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) Products ( Code INTEGER PRIMARY KEY [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL, Name [CHAR](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(50) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , Price REAL [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , Manufacturer INTEGER [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL )

Q3 :

INSERT INTO Manufacturers(Code,Name) VALUES(1,'Sony');

INSERT INTO Manufacturers(Code,Name) VALUES(2,'Creative Labs');

INSERT INTO Manufacturers(Code,Name) VALUES(3,'Hewlett-Packard');

INSERT INTO Manufacturers(Code,Name) VALUES(4,'Iomega');

INSERT INTO Manufacturers(Code,Name) VALUES(5,'Fujitsu');

INSERT INTO Manufacturers(Code,Name) VALUES(6,'Winchester');

Q4:

INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(1,'Hard drive',240,5);

INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(2,'Memory',120,6);

INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(3,'ZIP drive',150,4);

INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(4,'Floppy disk',5,6);

INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(5,'Monitor',240,1);

INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(6,'DVD drive',180,2);

INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(7,'CD drive',90,2);

INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(8,'Printer',270,3);

INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(9,'Toner cartridge',66,3);

INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(10,'DVD burner',180,2);

Q5:

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) Name FROM Products

Q6:

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) Name, Price FROM Products

Q7:

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) Name FROM Products WHERE Price <= 200

Q8 ;

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) \* FROM Products WHERE Price BETWEEN 60 [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) 120

Q9

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) Name, Price \* 100 AS PriceCents FROM Products

Q10

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) [AVG](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_avg)(Price) FROM Products

Q11

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) [AVG](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_avg)(Price) FROM Products WHERE Manufacturer=2

Q12

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(\*) FROM Products WHERE Price >= 180

Q13

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) Name, Price FROM Products WHERE Price >= 180 ORDER BY Price DESC, Name

Q14

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) \* FROM Products INNER JOIN Manufacturers ON Products.Manufacturer = Manufacturers.Code

Q15

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) Products.Name, Price, Manufacturers.Name FROM Products INNER JOIN Manufacturers ON Products.Manufacturer = Manufacturers.Code

Q16

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) [AVG](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_avg)(Price), Manufacturer FROM Products GROUP BY Manufacturer

Q17

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) [AVG](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_avg)(Price), Manufacturers.Name FROM Products INNER JOIN Manufacturers ON Products.Manufacturer = Manufacturers.Code GROUP BY Manufacturers.Name

Q18

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) [AVG](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_avg)(Price), Manufacturers.Name FROM Products INNER JOIN Manufacturers ON Products.Manufacturer = Manufacturers.Code GROUP BY Manufacturers.Name HAVING [AVG](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_avg)(Price) >= 150

Q19

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) name,price FROM Products ORDER BY price ASC LIMIT 1

Q20

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) A.Name, A.Price, F.Name FROM Products A, Manufacturers F WHERE A.Manufacturer = F.Code [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) A.Price = ( [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) [MAX](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_max)(A.Price) FROM Products A WHERE A.Manufacturer = F.Code )

Q21

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/insert.html) INTO Products( Code, Name , Price , Manufacturer) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_values) ( 11, 'Loudspeakers' , 70 , 2 )

Q22

[UPDATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/update.html) Products [SET](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/set.html) Name = 'Laser Printer' WHERE Code = 8

Q23

[UPDATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/update.html) Products [SET](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/set.html) Price = Price - (Price \* 0.1)

Q24

[UPDATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/update.html) Products [SET](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/set.html) Price = Price - (Price \* 0.1) WHERE Price >= 120