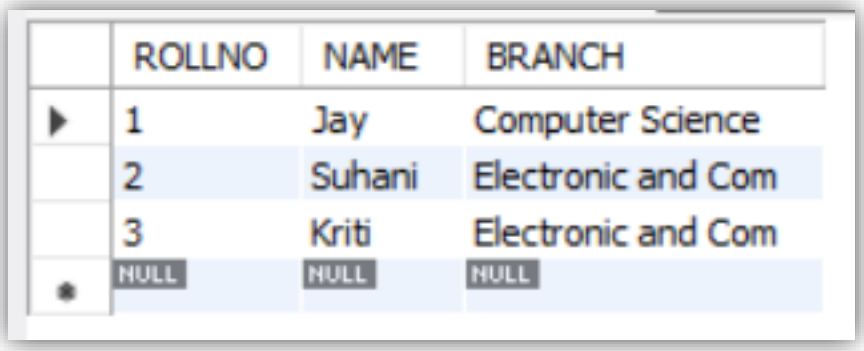
Database Query's

Question 1:

```
CREATE TABLE STUDENT(
ROLLNO INT PRIMARY KEY,
NAME VARCHAR(100),
BRANCH VARCHAR(50)
);

INSERT INTO STUDENT (ROLLNO, NAME, BRANCH) VALUES
(1, "Jay", "Computer Science"),
(2, "Suhani", "Electronic and Com"),
(3, "Kriti", "Electronic and Com");

SELECT * FROM STUDENT;
```



	ROLLNO	NAME	BRANCH
▶	1	Jay	Computer Science
	2	Suhani	Electronic and Com
	3	Kriti	Electronic and Com
*	NULL	NULL	NULL

```
CREATE TABLE EXAM (
ROLLNO INT,
S_CODE VARCHAR(10),
MARKS INT,
P_CODE VARCHAR(10),
FOREIGN KEY (ROLLNO) REFERENCES STUDENT(ROLLNO)
);

INSERT INTO EXAM (ROLLNO, S_CODE, MARKS, P_CODE) VALUES
(1, "CS11", 50, "CS"),
(1, "CS12", 60, "CS"),
(2, "EC101", 66, "EC"),
(2, "EC102", 70, "EC"),
(3, "EC101", 45, "EC"),
(3, "EC102", 50, "EC");

SELECT * FROM EXAM;
```

ROLLNO	S_CODE	MARKS	P_CODE
1	CS11	50	CS
1	CS12	60	CS
2	EC101	66	EC
2	EC102	70	EC
3	EC101	45	EC
3	EC102	50	EC

Question 2:

```
CREATE DATABASE ASSIGNMENT2;


CREATE TABLE EMPLOYE (
EMPLOYEE_ID INT PRIMARY KEY AUTO_INCREMENT,
FIRST_NAME VARCHAR(20),
LAST_NAME VARCHAR(20),
SALARY BIGINT,
JOINING_DATE DATETIME,
DEPARTMENT VARCHAR(30)
);


INSERT INTO EMPLOYE(EMPLOYEE_ID, FIRST_NAME, LAST_NAME, SALARY,
JOINING_DATE, DEPARTMENT) VALUES
(1, "John", "Abraham", 1000000, "2013-01-01", "Banking"),
(2, "Michael", "Clarke", 800000, "2013-01-01", "Insurance"),
(3, "Roy", "Thomas", 700000, "2013-02-01", "Banking"),
(4, "Tom", "Jose", 600000, "2013-02-01", "Insurance"),
(5, "Jerry", "Pinto", 650000, "2013-02-01", "Insurance"),
(6, "Philip", "Mahew", 750000, "2013-01-01", "Services"),
(7, "TestName1", "123", 650000, "2013-01-01", "Services"),
(8, "TestName2", "Lname%", 600000, "2013-02-01", "Insurance");


CREATE TABLE INCENTIVE1(
EMPLOYEE_REF_ID INT PRIMARY KEY AUTO_INCREMENT,
INCENTIVE_DATE DATETIME,
```

```
INCENTIVE_AMOUNT BIGINT,
FOREIGN KEY(EMPLOYEE_REF_ID) REFERENCES EMPLOYE(EMPLOYEE_ID)
);

INSERT INTO INCENTIVE1(EMPLOYEE_REF_ID, INCENTIVE_DATE,
INCENTIVE_AMOUNT) VALUES
(1, "2013-02-01", 5000),
(2, "2013-02-01", 3000),
(3, "2013-02-01", 4000),
(4, "2013-01-01", 4500),
(5, "2013-01-01", 3500);
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	John	Abraham	1000000	2013-01-01 00:00:00	Banking
2	Michael	Clarke	800000	2013-01-01 00:00:00	Insurance
3	Roy	Thomas	700000	2013-02-01 00:00:00	Banking
4	Tom	Jose	600000	2013-02-01 00:00:00	Insurance
5	Jerry	Pinto	650000	2013-02-01 00:00:00	Insurance
6	Philip	Mahew	750000	2013-01-01 00:00:00	Services
7	TestName1	123	650000	2013-01-01 00:00:00	Services
8	TestName2	Lname%	600000	2013-02-01 00:00:00	Insurance
NULL	NULL	NULL	NULL	NULL	NULL

EMPLOYEE_REF_ID	INCENTIVE_DATE	INCENTIVE_AMOUNT
1	2013-02-01 00:00:00	5000
2	2013-02-01 00:00:00	3000
3	2013-02-01 00:00:00	4000
4	2013-01-01 00:00:00	4500
5	2013-01-01 00:00:00	3500
NULL	NULL	NULL

Question 3:

SELECT FIRST_NAME AS "EMPLOYEE NAME" FROM EMPLOYE WHERE FIRST_NAME = 'Tom';

EMPLOYEE NAME
Tom

Question 4:

SELECT FIRST_NAME, JOINING_DATE, SALARY FROM EMPLOYE;

FIRST_NAME	JOINING_DATE	SALARY
John	2013-01-01 00:00:00	1000000
Michael	2013-01-01 00:00:00	800000
Roy	2013-02-01 00:00:00	700000
Tom	2013-02-01 00:00:00	600000
Jerry	2013-02-01 00:00:00	650000
Philip	2013-01-01 00:00:00	750000
TestName1	2013-01-01 00:00:00	650000
TestName2	2013-02-01 00:00:00	600000

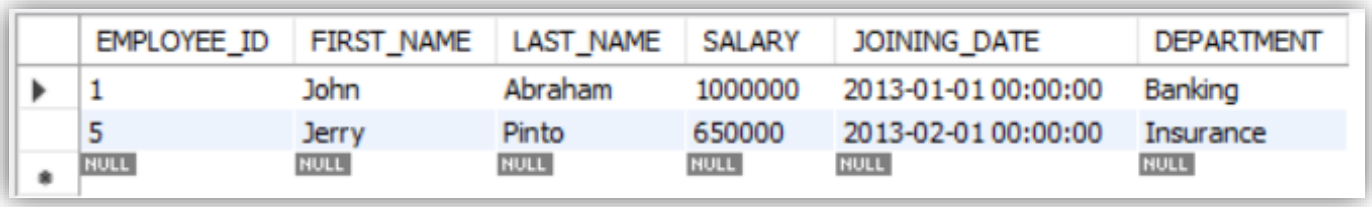
Question 5:

SELECT * FROM EMPLOYE ORDER BY FIRST_NAME ASC, SALARY DESC;

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
5	Jerry	Pinto	650000	2013-02-01 00:00:00	Insurance
1	John	Abraham	1000000	2013-01-01 00:00:00	Banking
2	Michael	Clarke	800000	2013-01-01 00:00:00	Insurance
6	Philip	Mahew	750000	2013-01-01 00:00:00	Services
3	Roy	Thomas	700000	2013-02-01 00:00:00	Banking
7	TestName1	123	650000	2013-01-01 00:00:00	Services
8	TestName2	Lname%	600000	2013-02-01 00:00:00	Insurance
4	Tom	Jose	600000	2013-02-01 00:00:00	Insurance
NULL	NULL	NULL	NULL	NULL	NULL

Question 6:

SELECT * FROM EMPLOYE WHERE FIRST_NAME LIKE '%J%';



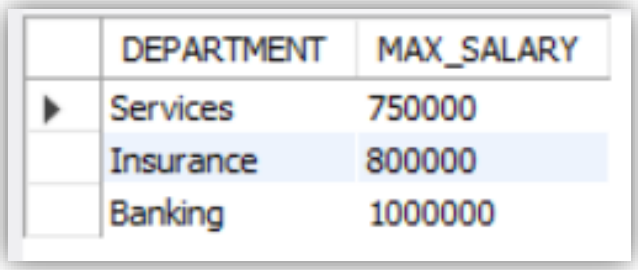
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	John	Abraham	1000000	2013-01-01 00:00:00	Banking
5	Jerry	Pinto	650000	2013-02-01 00:00:00	Insurance
NULL	NULL	NULL	NULL	NULL	NULL

Question 7:

SELECT DEPARTMENT, MAX(SALARY) AS MAX_SALARY FROM EMPLOYE

GROUP BY DEPARTMENT

ORDER BY MAX_SALARY ASC;



DEPARTMENT	MAX_SALARY
Services	750000
Insurance	800000
Banking	1000000

Question 9:

SELECT EMPLOYE.FIRST_NAME, INCENTIVE1.INCENTIVE_AMOUNT FROM EMPLOYE

JOIN INCENTIVE1 ON EMPLOYE.EMPLOYEE_ID = INCENTIVE1.EMPLOYEE_REF_ID

WHERE INCENTIVE1.INCENTIVE_AMOUNT > 3000;

	FIRST_NAME	INCENTIVE_AMOUNT
▶	John	5000
	Roy	4000
	Tom	4500
	Jerry	3500

Question 10:

```
CREATE TABLE VIEWTABLE(
EMPLOYEE_ID INT PRIMARY KEY AUTO_INCREMENT,
FIRST_NAME VARCHAR(20),
LAST_NAME VARCHAR(20),
SALARY BIGINT,
JOINING_DATE DATETIME,
DEPARTMENT VARCHAR(20),
ACTION_PERFORM VARCHAR(30)
);

CREATE TRIGGER INSERT_TABLE AFTER INSERT ON EMPLOYE FOR EACH ROW

INSERT INTO VIEWTABLE (EMPLOYEE_ID, FIRST_NAME, LAST_NAME, SALARY,
JOINING_DATE, DEPARTMENT, ACTION_PERFORM)
VALUES (NEW.EMPLOYEE_ID, NEW.FIRST_NAME, NEW.LAST_NAME,
NEW.SALARY, NEW.JOINING_DATE, NEW.DEPARTMENT, "Data Inserted!");
```

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT	ACTION_PERFORM
▶	9	DIYA	GAJJAR	600000	2013-02-01 00:00:00	Banking	Data Inserted!
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Question 11:

```
CREATE DATABASE ASSIGNMENT3;

CREATE TABLE SALSEPERSON(
SNO INT PRIMARY KEY AUTO_INCREMENT,
SNAME VARCHAR(40),
CITY VARCHAR(20),
COMM INT
);

INSERT INTO SALSEPERSON(SNO, SNAME, CITY, COMM) VALUES
(1001, "Peel", "London", .12),
(1002, "Serres", "San Jose", .13),
(1004, "Motika", "London", .11),
(1007, "Rafkin", "Barrcelona", .15),
(1003, "Axelrod", "New York", .1);

CREATE TABLE CUSTOMER(
CNM INT PRIMARY KEY AUTO_INCREMENT,
CNAME VARCHAR(40),
CITY VARCHAR(20),
RATING BIGINT,
SNO INT,
FOREIGN KEY(SNO) REFERENCES SALSEPERSON(SNO)
);
```

INSERT INTO CUSTOMER (CNM, CNAME, CITY, RATING, SNO) VALUES

(201, "Hoffman", "London", 100, 1001),

(202, "Giovanne", "Roe", 200, 1003),

(203, "Liu", "San Jose", 300, 1002),

(204, "Grass", "Barcelona", 100, 1002),

(205, "Clemens", "London", 300, 1007),

(206, "Pereira", "Roe", 100, 1004);

Question 12:

SELECT * FROM SALSEPERSON;

SELECT * FROM CUSTOMER;

SALSEPERSON

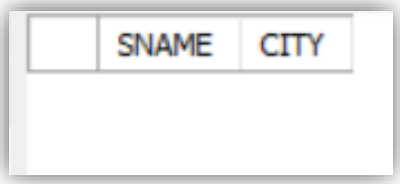
SNO	SNAME	CITY	COMM
1001	Peel	London	0
1002	Serres	San Jose	0
1003	Axelrod	New York	0
1004	Motika	London	0
1007	Rafkin	Barrcelona	0
NULL	NULL	NULL	NULL

CUSTOMER

CNM	CNAME	CITY	RATING	SNO
201	Hoffman	London	100	1001
202	Giovanne	Roe	200	1003
203	Liu	San Jose	300	1002
204	Grass	Barcelona	100	1002
205	Clemens	London	300	1007
206	Pereira	Roe	100	1004
NULL	NULL	NULL	NULL	NULL

Question 14:

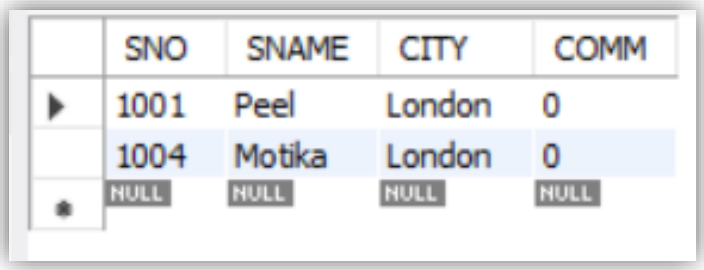
SELECT SNAME, CITY FROM SALSEPERSON WHERE CITY = 'London' AND COMM > 0.12;



	SNAME	CITY

Question 15:

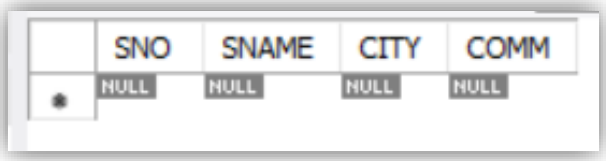
SELECT * FROM SALSEPERSON WHERE CITY IN ('Barcelona', 'London');



	SNO	SNAME	CITY	COMM
▶	1001	Peel	London	0
	1004	Motika	London	0
*	NULL	NULL	NULL	NULL

Question 16:

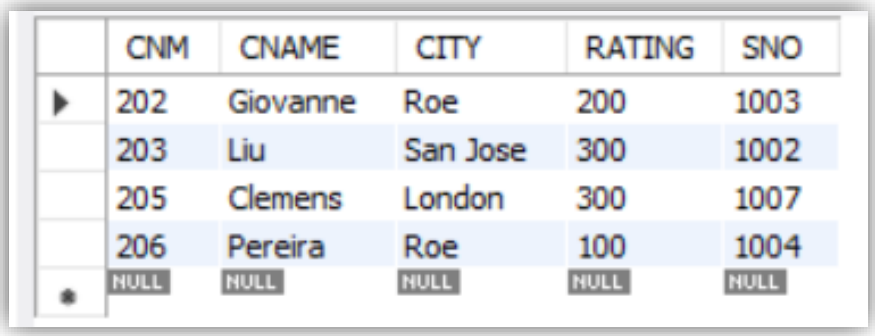
SELECT * FROM SALSEPERSON WHERE COMM > 0.10 AND COMM < 0.12;



	SNO	SNAME	CITY	COMM
*	NULL	NULL	NULL	NULL

Question 17:

SELECT * FROM CUSTOMER WHERE RATING > 100 OR (RATING <= 100 AND CITY = 'Roe');



CNM	CNAME	CITY	RATING	SNO
202	Giovanne	Roe	200	1003
203	Liu	San Jose	300	1002
205	Clemens	London	300	1007
206	Pereira	Roe	100	1004
NULL	NULL	NULL	NULL	NULL

Question 18:

CREATE TABLE SALESPEOPLE(

SALESMAN_ID BIGINT PRIMARY KEY AUTO_INCREMENT,

NAME VARCHAR(30),

CITY VARCHAR(20),

COMMISSION INT

);

INSERT INTO SALESPEOPLE(SALESMAN_ID, NAME, CITY, COMMISSION) VALUES

(5001, "James Hoog", "New York", 0.15),

(5002, "Nail Knite", "Paris", 0.13),

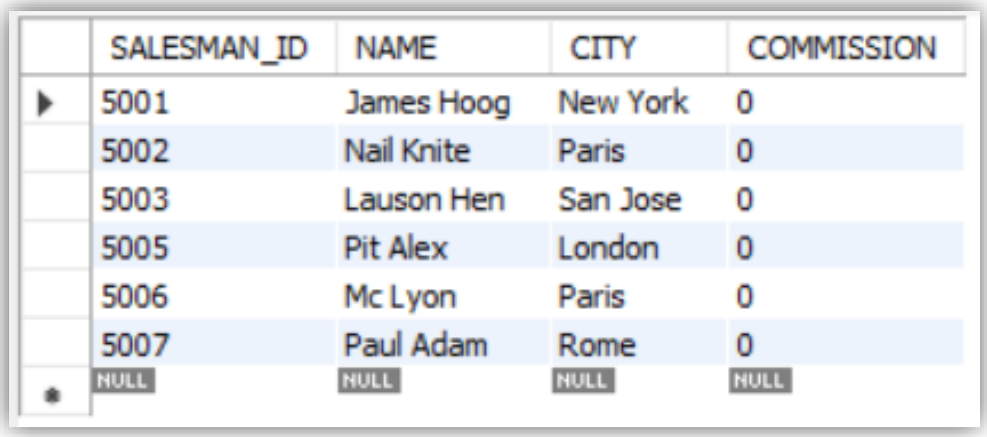
(5005, "Pit Alex", "London", 0.11),

(5006, "Mc Lyon", "Paris", 0.14),

(5007, "Paul Adam", "Rome", 0.13),

(5003, "Lauson Hen", "San Jose", 0.12);

SELECT * FROM SALESPEOPLE;



SALESMAN_ID	NAME	CITY	COMMISSION
5001	James Hoog	New York	0
5002	Nail Knite	Paris	0
5003	Lauson Hen	San Jose	0
5005	Pit Alex	London	0
5006	Mc Lyon	Paris	0
5007	Paul Adam	Rome	0
NULL	NULL	NULL	NULL

Question 19:

```
CREATE TABLE ORDERS(
ORD_NO BIGINT PRIMARY KEY AUTO_INCREMENT,
PURCH_AMT BIGINT,
ORD_DATE DATETIME,
CUSTOMER_ID BIGINT,
SALESMAN_ID BIGINT
);

INSERT INTO ORDERS(ORD_NO, PURCH_AMT, ORD_DATE, CUSTOMER_ID, SALESMAN_ID) VALUES
(70001, 150.5, "2012-10-05", 3005, 5002),
(70009, 270.65, "2012-09-10", 3001, 5005),
(70002, 65.26, "2012-10-05", 3002, 5001),
(70004, 110.5, "2012-08-17", 3009, 5003),
(70007, 948.5, "2012-09-10", 3005, 5002),
(70005, 2400.6, "2012-07-27", 3007, 5001),
(70008, 5760, "2012-09-10", 3002, 5001),
```

(70010, 1983.43, "2012-10-10", 3004, 5006),

(70003, 2480.4, "2012-10-10", 3009, 5003),

(70012, 250.45, "2012-06-27", 3008, 5002),

(70011, 75.29, "2012-08-17", 3003, 5007),

(70013, 3045.6, "2012-04-25", 3002, 5001);

SELECT * FROM ORDERS;

ORD_NO	PURCH_AMT	ORD_DATE	CUSTOMER_ID	SALESMAN_ID
70001	151	2012-10-05 00:00:00	3005	5002
70002	65	2012-10-05 00:00:00	3002	5001
70003	2480	2012-10-10 00:00:00	3009	5003
70004	111	2012-08-17 00:00:00	3009	5003
70005	2401	2012-07-27 00:00:00	3007	5001
70007	949	2012-09-10 00:00:00	3005	5002
70008	5760	2012-09-10 00:00:00	3002	5001
70009	271	2012-09-10 00:00:00	3001	5005
70010	1983	2012-10-10 00:00:00	3004	5006
70011	75	2012-08-17 00:00:00	3003	5007
70012	250	2012-06-27 00:00:00	3008	5002
70013	3046	2012-04-25 00:00:00	3002	5001
NULL	NULL	NULL	NULL	NULL

SELECT ORD_NO, ORD_DATE, PURCH_AMT FROM ORDERS WHERE SALESMAN_ID = 5001;

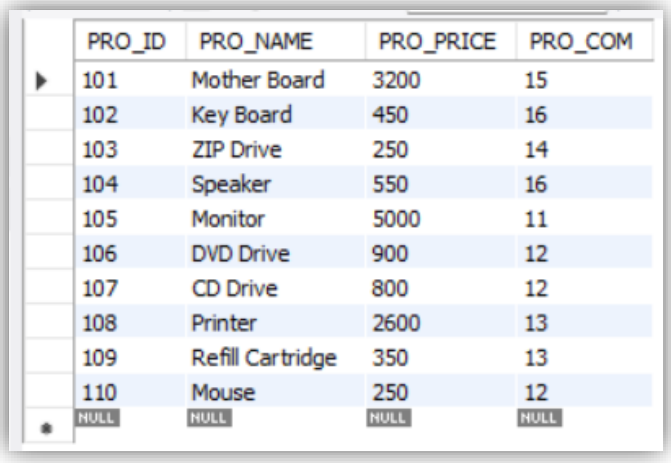
ORD_NO	ORD_DATE	PURCH_AMT
70002	2012-10-05 00:00:00	65
70005	2012-07-27 00:00:00	2401
70008	2012-09-10 00:00:00	5760
70013	2012-04-25 00:00:00	3046
NULL	NULL	NULL

Question 20:

```
CREATE TABLE ITEM_MAST (
   PRO_ID BIGINT PRIMARY KEY AUTO_INCREMENT,
   PRO_NAME VARCHAR(30),
   PRO_PRICE BIGINT,
   PRO_COM INT
);


INSERT INTO ITEM_MAST (PRO_ID, PRO_NAME, PRO_PRICE, PRO_COM)
VALUES
(101, 'Mother Board', 3200.00, 15),
(102, 'Key Board', 450.00, 16),
(103, 'ZIP Drive', 250.00, 14),
(104, 'Speaker', 550.00, 16),
(105, 'Monitor', 5000.00, 11),
(106, 'DVD Drive', 900.00, 12),
(107, 'CD Drive', 800.00, 12),
(108, 'Printer', 2600.00, 13),
(109, 'Refill Cartridge', 350.00, 13),
(110, 'Mouse', 250.00, 12);


SELECT * FROM ITEM_MAST;
```



PRO_ID	PRO_NAME	PRO_PRICE	PRO_COM
101	Mother Board	3200	15
102	Key Board	450	16
103	ZIP Drive	250	14
104	Speaker	550	16
105	Monitor	5000	11
106	DVD Drive	900	12
107	CD Drive	800	12
108	Printer	2600	13
109	Refill Cartridge	350	13
110	Mouse	250	12
NULL	NULL	NULL	NULL

SELECT PRO_ID, PRO_NAME, PRO_PRICE, PRO_COM FROM ITEM_MAST WHERE PRO_PRICE BETWEEN 200 AND 600;

	PRO_ID	PRO_NAME	PRO_PRICE	PRO_COM
▶	102	Key Board	450	16
	103	ZIP Drive	250	14
	104	Speaker	550	16
	109	Refill Cartridge	350	13
	110	Mouse	250	12
*	NULL	NULL	NULL	NULL

Question 21:

SELECT AVG(PRO_PRICE) AS AVG FROM ITEM_MAST WHERE PRO_COM = 16;

	AVG
▶	500.0000

Question 22:

SELECT PRO_NAME AS 'Item Name', PRO_PRICE AS 'Price in Rs.' FROM ITEM_MAST;

	Item Name	Price in Rs.
▶	Mother Board	3200
	Key Board	450
	ZIP Drive	250
	Speaker	550
	Monitor	5000
	DVD Drive	900
	CD Drive	800
	Printer	2600
	Refill Cartridge	350
	Mouse	250

Question 23:

SELECT PRO_NAME, PRO_PRICE FROM ITEM_MAST WHERE PRO_PRICE >= 250

ORDER BY PRO_PRICE DESC, PRO_NAME ASC;

PRO_NAME	PRO_PRICE
Monitor	5000
Mother Board	3200
Printer	2600
DVD Drive	900
CD Drive	800
Speaker	550
Key Board	450
Refill Cartridge	350
Mouse	250
ZIP Drive	250

Question 24:

SELECT PRO_COM AS Company_Code, AVG(PRO_PRICE) AS Average_Price
FROM ITEM_MAST

GROUP BY PRO_COM;

Company_Code	Average_Price
15	3200.0000
16	500.0000
14	250.0000
11	5000.0000
12	650.0000
13	1475.0000