Assignment No. 9

Database connectivity

Write a java program using eclipse interface for Database connectivity with postgresql database. Perform following SQL queries through java.

Create database salesmaster in Postgresql with username and password.

Create 3 separate java programs

1. **Create**
2. **Insert**
3. **Select**

Q. 1 Create the following tables:

i) client Master

columnname	datatype	size
client_no	varchar6	
name	varchar20	
city	varchar15	
pincode	integer	
state	varchar15	
bal_due	numeric	10,2

ii)Product Master

Columnname	datatype	size
Product_no	varchar	10
Prod_Name	varchar	20
Profit_percent	integer	
Unit_measure	varchar	10
Qty_on_hand	integer	
Reoder_lvl	integer	
Sell_price	integer	
Cost_price	integer	

iii) Product-Order Master:

Columnname	datatype	size
Product_no	varchar	10
client_no	varchar6	
Order-Qty	integer	

Q2- Insert the following data into their respective tables:

Data for Client Master: Primary key - Clientno

Clientno	Name	city	pincode	state	bal.due
0001	Ivan	Bombay	400054	Maharashtra	15000
0002	Vandana	Madras	780001	Tamilnadu	0
0003	Pramada	Bombay	400057	Maharashtra	5000
0004	Basu	Bombay	400056	Maharashtra	0
0005	Ravi	Delhi	100001	Null	2000
0006	Rukmini	Bombay	400050	Maharashtra	0

Data for Product Master: Primary key - Product No.

Product No.	Prod_Name	Profit_%	Unit	QoH	Reorder	Sell	Cost
P00001	1.44floppies	5	piece	100	20	525	500
P03453	Monitors	6	piece	10	3	12000	11200
P06734	Mouse	5	piece	20	5	1050	500
P07865	1.22 floppies	5	piece	100	20	525	500
P07868	Keyboards	2	piece	10	3	3150	3050
P07885	CD Drive	2.5	piece	10	3	5250	5100
P07965	540 HDD	4	piece	10	3	8400	8000
P07975	1.44 Drive	5	piece	10	3	1050	1000
P08865	1.22 Drive	5	piece	2	3	1050	1000

Data for Product-Order Master: Primary key - Product No., Clientno
Both are also foreign keys

Product No.	Clientno	Order-Qty
P00001	0001	5
P00001	0004	7
P00001	0006	4
P06734	0003	2
P06734	0005	2
P07965	0006	1
P07965	0002	1
P07885	0004	1

Q3:- On the basis of above three tables execute following queries and display the result through java program:

 i)   Find out the names of all the clients.

 ii)   List all the clients who are located in Bombay.

 iii)   Find the product whose selling price is greater than 2000 and less than or equal to 5000.

 iv)   Change the selling price of 1.44 floppy drive to Rs.1150.00

 v)   Calculate the average price of all the products.

 vi)   Count no. of clients from each city.

 vii)   List the products in sorted order of their description.

 viii)   Find out the product names which has been ordered by Clientno 0004

 ix)   Find out the names of clients who have purchased P0001 product.