ASSIGNMENT 1

Q1.Create the following tables:

i) client_master

columnname	datatype	size
client_no	varchar2	6
name	varchar2	20
address1	varchar2	30
address2	varchar2	30
city	varchar2	15
state	varchar2	15
pincode	number	6
bal_due	number	10,2

ii) Product_master

Columnname	datatype	size
Product_no	varchar2	
Description	varchar2	
Profit_percent	number	
Unit_measure	varchar2	
Qty_on_hand	number	
Reoder_lvl	number	
Sell_price	number	
Cost_price	number	

Q2. Insert the following data into their respective tables:

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		2000
0006	Rukmini	Bombay	400050	Maharashtra	0

Data for Product Master:

Product No.	Desciption	Profit %	Unit Percent	Qty measured	Reorder on hand	lvl	Sell price	Cost price
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

```
create table client_master(client_no varchar2(6),name varchar2(20),address1
varchar2(30),address2 varchar2(30),city varchar2(15), state varchar2(15), pincode number
(6),bal_due number(10,2))
```

```
Table created.
```

```
insert into client_master values('C0001','Ivan','','Bombay','Maharashtra','400054',15000);

insert into client_master values('C0002','Vandana','','Madras','Tamilnadu','780001',0);

insert into client_master values('C0003','Pramada','','Bombay','Maharashtra','400057',5000);

insert into client_master values('C0004','Basu','','Bombay','Maharashtra','400056',0);

insert into client_master values('C0005','Ravi','','Delhi','','100001',2000);

insert into client_master values('C0006','Rukmini','','Bombay','Maharashtra','400050',0);
```

```
1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.
```

```
create table product_master(Product_no varchar2(10),Description
varchar2(100),Profit_percent number(4,2),Unit_measure varchar2(8),Qty_on_hand
number(10),Reorder_lvl number(10),Sell_price number(10),Cost_price number(10))
```

```
Table created.
```

```
insert into product_master values('P00001','1.44floppies','5','piece','100','20','525','500');

insert into product_master values('P03453','Monitors','6','piece','10','3','12000','11200');

insert into product_master values('P06734','Mouse','5','piece','20','5','1050','500');

insert into product_master values('P07865','1.22floppies','5','piece','100','20','525','500');

insert into product_master values('P07868','Keyboards','2','piece','10','3','3150','3050');

insert into product_master values('P07885','CD Drive','2.5','piece','10','3','5250','5100');
```

insert into product_master values('P07965','540 HDD','4','piece','10','3','8400','8000');

insert into product_master values('P07975','1.44Drive','5','piece','10','3','1050','1000');

insert into product_master values('P08865','1.22Drive','5','piece','2','3','1050','1000');

```
1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.
```

Q3.On the basis of above two tables answer the following Questionries:

i) Find out the names of all the clients.

Select name from client_master;

NAME
Ivan
Vandana
Pramada
Basu
Ravi
Rukmini

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6 rows selected.

ii) Retrieve the list of names and cities of all the clients.

Select name,city from client_master;

NAME	CITY
Ivan	Bombay
Vandana	Madras
Pramada	Bombay
Basu	Bombay
Ravi	Delhi
Rukmini	Bombay

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6 rows selected.

iii) List the various products available from the product_master table.

Select description from product_master;

DESCRIPTION
1.44floppies
Monitors
Mouse
1.22floppies
Keyboards
CD Drive
540 HDD
1.44Drive
1.22Drive

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

Select name from client_master where city='Bombay';

NAME
Ivan
Pramada
Basu
Rukmini

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4 rows selected.

v) Display the information for client no 0001 and 0002.

Select * from client_master where client_no in('C0001','C0002');

CLIENT_NO	NAME	ADDRESS1	ADDRESS2	CITY	STATE	PINCODE	BAL_DUE
C0001	Ivan	-	-	Bombay	Maharashtra	400054	15000
C0002	Vandana	-	-	Madras	Tamilnadu	780001	0

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2 rows selected.

vi) Find the products with description as ‘1.44 drive’ and ‘1.22 Drive’.

Select Description from product_master where Description in (‘1.44Drive’, ‘1.22Drive’);

DESCRIPTION
1.44Drive
1.22Drive

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2 rows selected.

vii) Find all the products whose sell price is greater then 5000.

Select * from product_master where Sell_price>5000;

PRODUCT_NO	DESCRIPTION	PROFIT_PERCENT	UNIT_MEASURE	QTY_ON_HAND	REORDER_LVL	SELL_PRICE	COST_PRICE
P03453	Monitors	6	piece	10	3	12000	11200
P07885	CD Drive	2.5	piece	10	3	5250	5100
P07965	540 HDD	4	piece	10	3	8400	8000

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3 rows selected.

viii) Find the list of all clients who stay in in city 'Bombay' or city 'Delhi' or 'Madras'.

Select name from client_master where city in('Bombay','Delhi','Madras');

NAME
Ivan
Vandana
Pramada
Basu
Ravi
Rukmini

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6 rows selected.

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

Select Description from product_master where Sell_price>2000 and Sell_price<=5000;

DESCRIPTION
Keyboards

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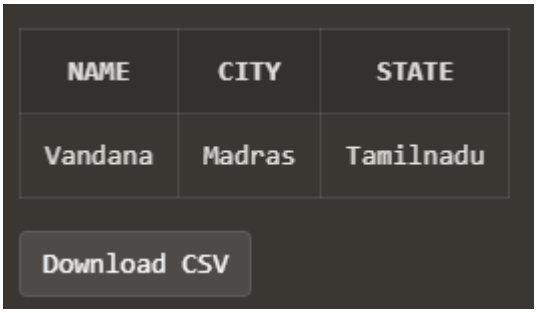
x) List the name, city and state of clients not in the state of 'Maharashtra'.

Select name,city,state from client_master where state not in 'Maharashtra';



NAME	CITY	STATE
Vandana	Madras	Tamilnadu

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ASSIGNMENT 2

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

Update product_master set Sell_price = 1150.00 where Product_no='P00001';
Select * from product_master where Product_no = 'P00001';

1 row(s) updated.

PRODUCT_NO	DESCRIPTION	PROFIT_PERCENT	UNIT_MEASURE	QTY_ON_HAND	REORDER_LVL	SELL_PRICE	COST_PRICE
P00001	1.44floppies	5	piece	100	20	1150	500

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ii) Delete the record with client 0001 from the client master table.

Delete from client_master where client_no = 'C0001';
Select * from client_master;

1 row(s) deleted.

CLIENT_NO	NAME	ADDRESS1	ADDRESS2	CITY	STATE	PINCODE	BAL_DUE
C0002	Vandana	-	-	Madras	Tamilnadu	780001	0
C0003	Pramada	-	-	Bombay	Maharashtra	400057	5000
C0004	Basu	-	-	Bombay	Maharashtra	400056	0
C0005	Ravi	-	-	Delhi	-	100001	2000
C0006	Rukmini	-	-	Bombay	Maharashtra	400050	0

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5 rows selected.

iii) Change the city of client_no ‘0005’ to Bombay.

Update client_master set city = 'Bombay' where client_no = 'C0005';
Select * from client_master;

1 row(s) updated.

CLIENT_NO	NAME	ADDRESS1	ADDRESS2	CITY	STATE	PINCODE	BAL_DUE
C0002	Vandana	-	-	Madras	Tamilnadu	780001	0
C0003	Pramada	-	-	Bombay	Maharashtra	400057	5000
C0004	Basu	-	-	Bombay	Maharashtra	400056	0
C0005	Ravi	-	-	Bombay	-	100001	2000
C0006	Rukmini	-	-	Bombay	Maharashtra	400050	0

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5 rows selected.

iv) Change the bal_due of client_no ‘0001’ to 1000.

Update client_master set bal_due = 1000 where client_no = 'C0001';
Select * from client_master;

1 row(s) updated.

CLIENT_NO	NAME	ADDRESS1	ADDRESS2	CITY	STATE	PINCODE	BAL_DUE
C0001	Ivan	-	-	Bombay	Maharashtra	400054	1000
C0002	Vandana	-	-	Madras	Tamilnadu	780001	0
C0003	Pramada	-	-	Bombay	Maharashtra	400057	5000
C0004	Basu	-	-	Bombay	Maharashtra	400056	0
C0005	Ravi	-	-	Bombay	-	100001	2000
C0006	Rukmini	-	-	Bombay	Maharashtra	400050	0

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v) Find the products whose selling price is more than 1500 and also find the new selling price as original selling price *15.

Select Product_no, Description, Sell_price, (Sell_price * 15) as New_Sell_price from product_master where Sell_price > 1500;

PRODUCT_NO	DESCRIPTION	SELL_PRICE	NEW_SELL_PRICE
P03453	Monitors	12000	180000
P07868	Keyboards	3150	47250
P07885	CD Drive	5250	78750
P07965	540 HDD	8400	126000

vi) Find out the clients who stay in a city whose second letter a.

Select client_no, name, city from client_master where SUBSTR(city, 2, 1) = 'a';

CLIENT_NO	NAME	CITY
C0002	Vandana	Madras

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vii) Find out the name of all clients having ‘a’ as the second letter in their names.

Select client_no, name from client_master where SUBSTR(name, 2, 1) = 'a';

CLIENT_NO	NAME
C0002	Vandana
C0004	Basu
C0005	Ravi

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

Select * from product_master order by Description;

PRODUCT_NO	DESCRIPTION	PROFIT_PERCENT	UNIT_MEASURE	QTY_ON_HAND	REORDER_LVL	SELL_PRICE	COST_PRICE
P08865	1.22Drive	5	piece	2	3	1050	1000
P07865	1.22floppies	5	piece	100	20	525	500
P07975	1.44Drive	5	piece	10	3	1050	1000
P00001	1.44floppies	5	piece	100	20	1150	500
P07965	540 HDD	4	piece	10	3	8400	8000
P07885	CD Drive	2.5	piece	10	3	5250	5100
P07868	Keyboards	2	piece	10	3	3150	3050
P03453	Monitors	6	piece	10	3	12000	11200
P06734	Mouse	5	piece	20	5	1050	500

ix) Count the total number of orders.

Select count(*) as total_order from product_master;

x) Calculate the average price of all the products.

Select avg(Sell_price) as Average_Price from product_master;

Select avg(Cost_price) as Average_Price from product_master;

AVERAGE_PRICE
3666.6666666666666666666666666666666666667

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AVERAGE_PRICE
3427.7777777777777777777777777777777777778

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xi) Calculate the minimum price of products.

Select min(Sell_price) as Minimum_Price from product_master;

MINIMUM_PRICE
525

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xii) Determine the maximum and minimum prices. Rename the title as 'max_price' and 'min_price' respectively.

Select max(Sell_price) as max_price, min(Sell_price) as min_price from product_master; /* for sell price*/

Select max(Cost_price) as max_price, min(Cost_price) as min_price from product_master; /* for cost price*/

MAX_PRICE	MIN_PRICE
12000	525

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MAX_PRICE	MIN_PRICE
11200	500

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xiii) Count the number of products having price greater than or equal to 1500.

Select count(*) as num_products from product_master where Sell_price >= 1500;