

Name : UDHAVARAJAN J.

Class : MCA - I.

Sub : DBMS

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Type : practical Lab

i) Create following tables :

i) client\_master

Columnname	datatype	size
client_no	varchar2	6
name	varchar2	20
address_1	varchar2	30
address_2	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	
reorder_lv	number	
sellprice	number	
cost_price	number	

Sol:

i) client master

Create table client\_master (

client_no	varchar(6)	Not Null,
name	varchar(20)	Default null,
address_1	varchar(30)	Default null,
address_2	varchar(30)	Default null,
city	varchar(15)	Default null,
state	varchar(15)	Default null,
pincode	int	Default null,
bal-due	double(10, 2)	Default null,

);

ii) product master

Create table product\_master (

product_no	varchar(45)	Default null,
description	varchar(45)	Default null,
profit_percent	int	Default null,
unit-measure	varchar(45)	Default null,
Qty-on-hand	int	Default null,
ReorderLvl	int	Default null,
sellprice	double(10,2)	Default null,
costprice	double(10,2)	Default null

);

(Q2). Insert following data into table.

client_no	Name	city	pincode	state	Balance due.
0001	Ivan	Bombay	400054	Maharashtra	15000
0002	Vandana	Madras	780001	Tamilnadu	0
0003	Pramada	Bombay	400057	Maharashtra	5000
0004	Raju	Bombay	400056	Maharashtra	0
0005	Ravi	Delhi	100001		2000
0006	Rukmani	Bombay	400050	Maharashtra	0

product no.	Description	Profit %.	Unit measure	Qty.on hand.	Factor	Selling price	Cost price
P0001	1.44 Floppies	5	piece	100	20	525	500
P03453	monitors	6	piece	10	3	1800	1200
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	2.4	piece	10	3	5250	5000
P07965	5140 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

sol:

i) Insert into client master

(

client\_no,

name,

city,

pincode,

State,

balance

)

values

('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', 'Pavi', 'Delhi', 100001, 1, 2000),  
 ('0006', 'Rukmani', 'Bombay', 400050, 'Maharashtra', 0);

i) Insert into product\_master

(

product\_no,

Description,

profit\_percent,

unit\_measure,

Qty\_on\_hand,

Reorder\_lvL,

Sell\_Price,

Cost\_Price

).

values

( 'p0001', '1.44 Floppies', 5, 'piece', 100, 20, 525, 500),  
 ('p03453', 'Monitors', 6, 'piece', 10, 3, 12000, 11200),  
 ('p06734', 'Mouse', 5, 'piece', 20, 5, 1050, 500),  
 ('p07856', '1.22 Floppies', 5, 'piece', 100, 20, 525, 500),  
 ('p07862', '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);

Q3) Answer the following Question.

i) Find out the names of all clients.

Select name from client master;

name
Ivan
Vandana
Pramada
Basu
Ravi
Rukmani

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
Rukmani	Bombay

iii). List the various products available from the Product master table.

Select \* from product - master;

Product no.	Description.	Profit percent	Unit measure	City on hand	Reorder lvl	Sell price.	Cost price.
P00001	144 floppies	5	piece	100	20	1150	500
P03453	monitors	6	piece	10	3	18000	11200
P05678	mouse	5	piece	20	5	1050	500
P07856	1.22 floppies	5	piece	100	20	505	500
P07868	keyboards	2	piece	10	3	3150	3050
P07885	CD drive	3	piece	10	3	5250	5100
P07965	5100 HDD	4	piece	10	3	8400	2000
P07975	1.44 Drive	5	piece	10	3	1050	1000
P08865	1.22 Drive.	5	piece	2	3	1050	1000

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

Select \* from client\_mast where city like '%.Bombay%';

client_no	name	address1	address2	city	state	pincode	bal_due
0001	Ivan			Bombay	Mah.	400054	15000
0003	Vandana			Bombay	Mah.	400057	5000
0004	Pragya			Bombay	Mah..	400056	0
0006	Rukmani	,	,	Bombay	Mah.	400050	0

v) Display the information for client\_no 0001 and 0002.

Select \* from client\_mast where client\_no in ('0001', '0002');

client_no	name	address1	address2	city	state	pincode	bal_due
0001	Ivan			Bombay	Maharashtra	400054	15000
0002	Vandana			Madras	Tamilnadu	780001	0

vi) find the products with description as '1.44 drive' and '1.22 drive'

Select \* from product\_mast where Description in ('1.44 drive', '1.22 drive');

product no.	description	profit percent	unit measure	city on hand	quantity in	sell price	cost price
P07978	1.44 drive	5	piece	10	3	1050	1000
P08865	1.22 drive	5	piece	2	3	1050	1000

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

Select \* from product master where sell\_price > 5000;

product no.	description	profit percent	unit measure	city on hand	quantity in	sell price	cost price
P03452	Monitor	6	piece	10	3	12000	11200
P07885	CD Drive	3	piece	10	3	5000	5100
P07965	FWD HDD	4	piece	10	3	8400	8000

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

Select \* from client master where city = 'Bombay' or city = 'Delhi' or city = 'Madras';

client no.	name	address1	address2	city	state	pincode	bal due
0001	Ivan			Bombay	Maharashtra	400054	15000
0002	Venkata			Madras	Tamilnadu	780001	0
0003	Pramila			Bombay	Maharashtra	400087	5000
0004	Bayu			Bombay	Maharashtra	400056	0
0005	Ravi			Delhi		100001	2000
0006	Aukmani			Bombay	Maharashtra	400080	0

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

Select \* from product master where sell\_price between 2000 and 5000;

product no.	Description	Profit percent	Unit measure.	Qty on hand.	Random Inv	Sell price	Cost price
007868	keyboards	2	piece	10	3	2150	3050

- x) List the name, city and state of clients not in the state of maharashtra.

Select name,city,State from client master where State <> 'Maharashtra';

name	city	state
Vandana	Madras	Tamilnadu
Ravi	Delhi	

(Q4). Write query for following.

i) change the selling price of 1.44 floppy drive to:  
Rs. 1150.

update product master.

Set

sell\_price = 1150

where

description = '1.44, floppies' ;

ii) delete the record with client\_no 0001 from  
client master table.

delete from client\_master where client\_no = '0001' ;

iii) change the city of client\_no '0005' to Bombay.

update client\_master

set

city = 'Bombay'

where

client\_no = '0005' ;

iv) change the bal-due of client\_no 0004 to 1000.

update client\_master.

set

bal-due = 1000.

where

client\_no = '0004' ;

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

Select.

Sell-price \* 15  
from.

product master  
where.

Sell-price > 1500;

sellprice * 15
180000
147250
78750
126000

vi) find out the name of all clients having 'a' at the second letter in their name.

Select \* from client master where name like '\_ay';

client_no	name	address1	address2	city	state	pincode	bal-due
0002	Randha			Madras	Tamilnadu	180001	0
0004	Basu			Bombay	Maharashtra	400056	0
0005	Pavi			Delhi		100001	2000

vii) find out the clients who stay in a city whose second letter is 'a'.

Select \* from client master where city like '\_ay';

client_no	name	address1	address2	city	state	pincode	bal-due
0002	Randha			Madras	Tamilnadu	180001	0

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

Select \* from product master order by description;

product no.	description	profit percent	unit measure	Qty on hand	order no.	sold price	cost price
P00865	1.22 drive	5	piece	2	3	1050	1000
P07856	1.22 Floppies	5	piece	100	20	505	500
P07975	1.44 drive	5	piece	10	3	1050	1000
P00001	1.44 Floppies	5	piece	100	20	1150	500
P07965	510 HDD	4	piece	10	3	8400	8000
P07885	cd drive	3	piece	10	3	5250	5100
P07868	keyboards	2	piece	10	3	3150	2000
P03453	monitor	6	piece	10	3	12000	11200
P06734	Mouse	5	piece	20	5	1050	500

ix). Count the total number of orders.

Select count(\*) from client master;

Count(\*)

6.

x) Calculate the average price of all products.

Select avg(sell\_price) from product master;

Avg(sell\_price)

3736.11111

xii). calculate the minimum price of product.

select min(sell-price) from product-master;

min(sell-price)

525.

xiii). Determine the maximum and minimum price.  
Rename the title of 'max. price' and 'min. price'  
respectively.

Select

min(sell-price) as 'min\_price',

max(sell-price) as 'max\_price'

from

product-master;

min. price

max. price

525

19000

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

Select count(\*) from product-master where

sell-price  $\geq 1500$ ;

Count(\*)

4.

(Q5). Create the following tables:

i) Salesman - master.

Columnname.	Datatype.	Size.	Attributes.
Salesman_no	varchar	6	primary.
Sal_name	varchar	20	not null.
Address	varchar		
city.	varchar	20	
State	varchar	20	
pincode	Number	6.	
sal-amt	Number	8,2	not null cannot be 0
tgt_to_get	Number	6,2	not null cannot be 0
Ytd_Sales.	Number	6,2	not null cannot be 0
Remarks	checkbox	30.	

ii) Sales\_order.

Columnname.	Datatype.	Size.	Attributes.
S_order_no	varchar	6	primary.
S_order_date	date	6	prim
client_no	varchar	25	primary ref. client
Dely-add.	varchar	6	
Salesman_no	varchar	6.	foreign key ref....
Dely_Type	char	1	Delivery post (P)/full...
Billed_yn.	char	1	
Dely_date.	Date		cannot less than S_order
order_Status	varchar	10.	value ip, c, F.

iii) Sales\_order\_details.

Columnname	Datatype.	Size.	Attributes.
S_order_no.	varchar	6	primary Key.
product_no.	varchar	6	foreign key product_m.
Qty_order	Number	8	
Qty_disp	Number	8	
product_rate	number	10,2	

sol:

i). Salesman master:

Create table salesman\_master (

salesman_no.	varchar(6)	not null ,
sal-name	varchar(20)	not null ,
Address	varchar(50)	null ,
city	varchar(20)	null ,
state	varchar(20)	null ,
pincode	int	null ,
sal-amt	decimal(8,2)	not null ,
Tgt_to_get	decimal(6,2)	not null ,
Ytd_Sale	decimal(6,2)	not null ,
Remark	varchar(30)	null ,

primary key (salesman\_no)

);

ii). Sales order.

Create table sales\_order (

s-order-no	varchar(6)	not null ,
s-order-date	Date	null ,
client_no.	varchar(6)	not null ,
Dely-add.	varchar(50)	,
Salesman_no	varchar(6)	,
Dely-type	char(1)	Default 'F'
Billed-yn	char(1)	,
Dely-date	Date	,
order status	varchar(10)	,

primary key (s\_order\_no),

check (s\_order\_no RegEx '^o'),

check (Dely-type in ('F', 'P')),

Check (order\_status in ('P', 'F', 'C')),  
 Check (s\_order\_date >= s\_order\_date),

Foreign key (client\_no)

Reference client master (client\_no),

Foreign key (salesman\_no)

Reference salesman master (salesman\_no).

);

### iii) sales\_order\_details .

Create table sales\_order\_details (

s\_order\_no varchar(6) not null,

product\_no varchar(6) not null,

Qty\_order int ,

Qty\_disp int ,

product\_rate decimal(10,2) ,

primary key (s\_order\_no, product\_no),

Foreign key . (s\_order\_no)

Reference . sales\_order (s\_order\_no),

Foreign key (product\_no)

Reference product master (product\_no)

);