Institute of Computer Technology

B. Tech Computer Science and Engineering

Sub: Database Management System (2CSE301)

Practical 2: Performing Deletion, Modifying, Altering, Updating and Viewing records based on conditions on tables.

Scenario: Mohan is reviewing the work done till now and suggest IT Company to create one more table named Employee to have their records. They are applying CRUD Operation i.e. changes in table structure and data modified with different fields.

Exercise:

Solve the following queries using the database given in practical 1.

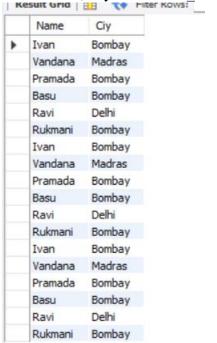
A) Retrieving records from table.

1) Find out the names of all clients. select Name from client master;

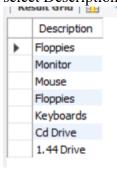


2) Retrieve the list of names and the cities of all the clients

select Name, City from client master;



3) List the various products available from the product_master table. select Description from product master;



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

select * from client master where Ciy='Bombay';

	Client_no	Name	Ciy	Pincode	State	Bal_due
١	C001	Ivan	Bombay	400054	Maharashtra	15000.00
	C003	Pramada	Bombay	400057	Maharashtra	5000.00
	C004	Basu	Bombay	400056	Maharashtra	0.00
	C006	Rukmani	Bombay	400050	Maharashtra	0.00

5) Find the names of the salesman who have a salary equal to Rs. 3000

select s_name from salesman_master where Sal_amt=3000;



6) List out only unique values for the city of client master table

select distinct ciy from client master;



7) Display product master table according to the sell price of product.

select * from product master order by Sell price;

Product_no	Description	P_percent	U_measure	Qty_on_hand	Reorder_lvl	Sell_price	Cost_price
P001	Floppies	5.00	Piece	100	20	525.00	500.00
P004	Floppies	5.00	Piece	100	20	525.00	500.00
P003	Mouse	5.00	Piece	20	5	1050.00	1000.00
P005	Keyboards	2.00	Piece	10	3	3150.00	3050.00
P006	Cd Drive	2.50	Piece	10	3	5250.00	5100.00
P007	1.44 Drive	4.00	Piece	10	3	8400.00	8000.00
P002	Monitor	6.00	Piece	10	3	12000.00	11280.00
	P001 P004 P003 P005 P006 P007	P001 Floppies P004 Floppies P003 Mouse P005 Keyboards P006 Cd Drive P007 1.44 Drive	P001 Floppies 5.00 P004 Floppies 5.00 P003 Mouse 5.00 P005 Keyboards 2.00 P006 Cd Drive 2.50 P007 1.44 Drive 4.00	P001 Floppies 5.00 Piece P004 Floppies 5.00 Piece P003 Mouse 5.00 Piece P005 Keyboards 2.00 Piece P006 Cd Drive 2.50 Piece P007 1.44 Drive 4.00 Piece	P001 Floppies 5.00 Piece 100 P004 Floppies 5.00 Piece 100 P003 Mouse 5.00 Piece 20 P005 Keyboards 2.00 Piece 10 P006 Cd Drive 2.50 Piece 10 P007 1.44 Drive 4.00 Piece 10	P001 Floppies 5.00 Piece 100 20 P004 Floppies 5.00 Piece 100 20 P003 Mouse 5.00 Piece 20 5 P005 Keyboards 2.00 Piece 10 3 P006 Cd Drive 2.50 Piece 10 3 P007 1.44 Drive 4.00 Piece 10 3	P001 Floppies 5.00 Piece 100 20 525.00 P004 Floppies 5.00 Piece 100 20 525.00 P003 Mouse 5.00 Piece 20 5 1050.00 P005 Keyboards 2.00 Piece 10 3 3150.00 P006 Cd Drive 2.50 Piece 10 3 5250.00 P007 1.44 Drive 4.00 Piece 10 3 8400.00

8) Display product_master table according to the sell_price and cost_price. select * from product_master order by Sell_price,Cost_price;

Re	esult Grid	🙌 Filter Ro	ows:	E	xport: 📳 Wra	ap Cell Content:	<u>‡A</u>	
	Product_no	Description	P_percent	U_measure	Qty_on_hand	Reorder_lvl	Sell_price	Cost_price
•	P001	Floppies	5.00	Piece	100	20	525.00	500.00
	P004	Floppies	5.00	Piece	100	20	525.00	500.00
	P003	Mouse	5.00	Piece	20	5	1050.00	1000.00
	P005	Keyboards	2.00	Piece	10	3	3150.00	3050.00
	P006	Cd Drive	2.50	Piece	10	3	5250.00	5100.00
	P007	1.44 Drive	4.00	Piece	10	3	8400.00	8000.00
	P002	Monitor	6.00	Piece	10	3	12000.00	11280.00

9) Display product no, description in descending order of sell price for product master table.

select * from product master order by Sell price DESC;

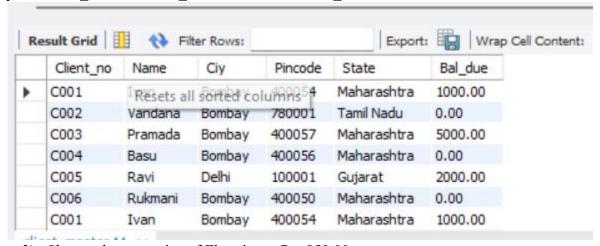


Name: Ayush Patel Class B Batch 35 Enrollment: 22162171038 B) Updating records in a table.

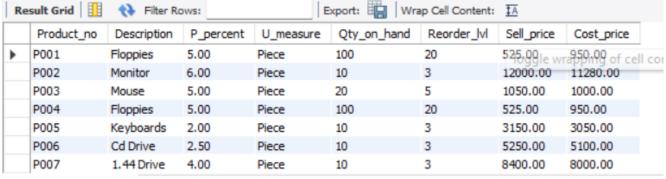
1) Change the city of client_no'C002' to 'Bombay'. update client master set Ciy='Bombay' where client no='C002';

Client_no	Name	Ciy	Pincode	State	Bal_due
C001	Ivan	Bombay	400054	Maharashtra	15000.00
C002	Vandana	Bombay	780001	Tamil Nadu	0.00
C003	Pramada	Bombay	400057	Maharashtra	5000.00
C004	Basu	Bombay	400056	Maharashtra	0.00
C005	Ravi	Delhi	100001	Gujarat	2000.00
C006	Rukmani	Bombay	400050	Maharashtra	0.00

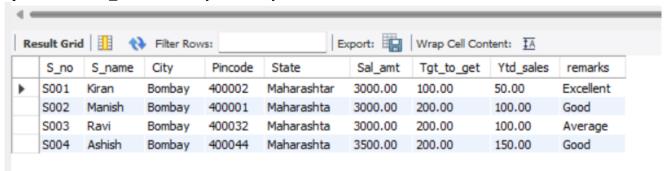
2) Change the bal_due of client_no'C001' to Rs.1000 update client master set Bal_due=1000 where client_no='C001';



3) Change the cost price of Floppies to Rs. 950.00 update product_master set Cost_price=950 where description='Floppies';

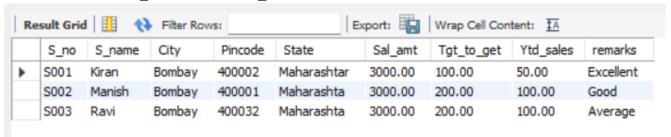


4) Change the city of the salesman to Mumbai. update salesman master set City='Bombay';

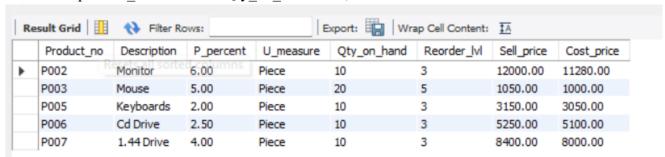


Deleting records in a table:

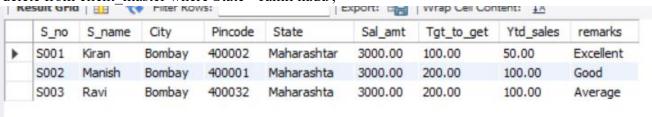
1) Delete all salesman from the salesmane_master whose salaries are equal to Rs. 3500. delete from salesman master where Sal amt=3500;



2) Delete all products from product_master where the quantity on hand is equal to 100. delete from product_master where Qty_on_hand=100;



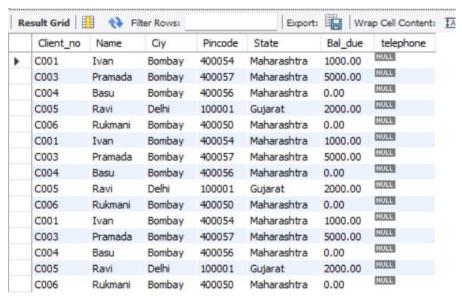
3) Delete from client_master where the column state holds the value 'Tamil Nadu'. delete from client_master where State='Tamil nadu';



E) Altering the table structure:

1) Add a column called 'telephone' of datatype 'number' and size=10 to the client_master table.

alter table client_master add telephone numeric(10);



2) Change the size of sell_price column in product_master to 10,2.

alter table product_master modify Sell_price numeric(10,2);

	Field	Type	Null	Key	Default	Extra
١	Product_no	varchar(6)	YES		NULL	
	Description	varchar(15)	YES		NULL	
	P_percent	decimal(4,2)	YES		NULL	
	U_measure	varchar(10)	YES		NULL	
	Qty_on_hand	decimal(8,0)	YES		HULL	
	Reorder_lvl	decimal(8,0)	YES		NULL	
	Sell_price	decimal(10,2)	YES		NULL	
	Cost_price	decimal(8,2)	YES		NULL	

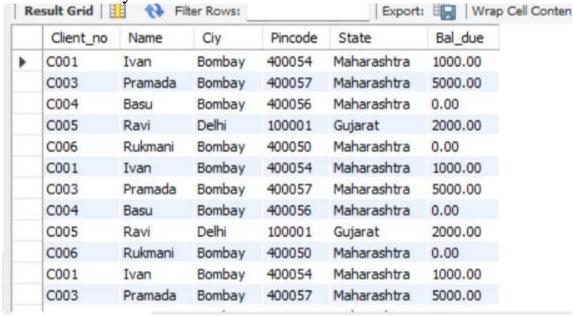
3) Rename column telephone to new name as contact for client_master table.

alter table client_master rename column telephone to Contact;

	Client_no	Name	Ciy	Pincode	State	Bal_due	Contact	
•	C001	Ivan	Bombay	400054	Maharashtra	1000.00	HULL	
	C003	Pramada	Bombay	400057	Maharashtra	5000.00	NULL	
	C004	Basu	Bombay	400056	Maharashtra	0.00	HULL	
	C005	Ravi	Delhi	100001	Gujarat	2000.00	NULL	
	C006	Rukmani	Bombay	400050	Maharashtra	0.00	NULL	
	C001	Ivan	Bombay	400054	Maharashtra	1000.00	NULL	
	C003	Pramada	Bombay	400057	Maharashtra	5000.00	NULL	
	C004	Basu	Bombay	400056	Maharashtra	0.00	HULL	
	C005	Ravi	Delhi	100001	Gujarat	2000.00	NULL	
	C006	Rukmani	Bombay	400050	Maharashtra	0.00	NULL	
	C001	Ivan	Bombay	400054	Maharashtra	1000.00	HULL	
	C003	Pramada	Bombay	400057	Maharashtra	5000.00	NULL	
	C004	Basu	Bombay	400056	Maharashtra	0.00	NULL	
	C005	Ravi	Delhi	100001	Gujarat	2000.00	HULL	
	C006	Rukmani	Bombay	400050	Maharashtra master table	0.00	NULL	

4) Delete column contact from client_master table.

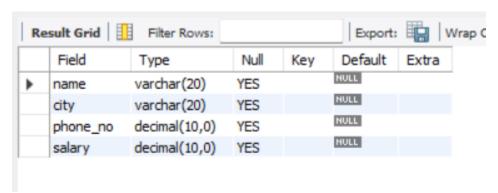
alter table client_master drop column Contact;



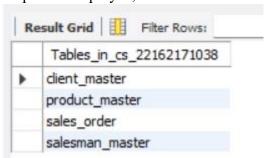
F) Deleting the table structure along with data:

Create table employee with 4 columns and 5 rows.

create table employee(name varchar(20), city varchar(20), phone_no numeric(10), salary numeric(10));



1) Destroy the table employee along with its data. drop table employee;



G) Renaming the table:

1) Change the name of the salesman_master table to sman_mast. rename table salesman master to sman mast;

