Excercise - 1

7/9/20 monday.

1. create the following table client with fields id, name, url, description.
2. Insert 5 rows of data into the table
3. Select all fields
4. To select id & description from table client
5. select those clients whose description is guest
6. Write the comment for selecting only unique names
7. For id 101 change the client url
8. Display the table in the decreasing order of id
9. Display the table in the decreasing order of name

o/p

1 create table client(id int, name varchar(10), url varchar(10), des varchar(10));

Table created

2 insert into client values(100,'manu','facebook.com/manu', 'guest');

1 row(s) inserted

insert into client values(101,'anu','facebook.com/anu', 'clerk');

1 row(s) inserted

insert into client values(102,'siju','facebook.com/siju','emp');

1 row(s) inserted

insert into client values(103,'nima','facebook.com/nima', 'guest');

1 row(s) inserted

insert into client values(104,'lalu','facebook.com/lalu', 'mngr');

1 row(s) inserted

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3 Select * from client;

ID	NAME	URL	DES
100	manu	facebook.com/manu	guest
101	anu	facebook.com/anu	clerk
102	siju	facebook.com/siju	emp
103	nima	facebook.com/nima	guest
104	lalu	facebook.com/lalu	mngr

4 Select id,des from client;

ID	DES
100	guest
101	clerk
102	emp
103	guest
104	mngr

5 Select * from client where des='guest';

ID	NAME	URL	DES
100	manu	facebook.com/manu	guest
103	nima	facebook.com/nima	guest

(or)

select from client where des='guest';

NAME	DES
manu	guest
nima	guest

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6 select distinct(name) from client;

NAME
manu
anu
siju
nima
lalu

7 update client set url='facebook.com/abc' where id=10

1 row(s) updated

8 Select * from client order by id desc;

ID	NAME	URL	DES
104	lalu	facebook.com/lalu	mngr
103	nima	facebook.com/nima	guest
102	siju	facebook.com/siju	emp
101	anu	facebook.com/abc	clerk
100	manu	facebook.com/manu	guest

9 select * from client order by name desc;

ID	NAME	URL	DES
102	siju	facebook.com/siju	emp
103	nima	facebook.com/nima	guest
100	manu	facebook.com/manu	guest
104	lalu	facebook.com/lalu	mngr
101	anu	facebook.com/anu	clerk

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Excercise - 2

1. Create a table Employee, with following fields no., name, designation, salary, DOB, & dept no.
2. Insert 5 rows into the table
3. Select all the records from table
4. List employees whose salary is > 3000
5. Delete the records of the employees who belongs to the dept no. 6
6. change the name of the table
7. update the table by giving an increment of Rs. 500 to mngr
8. Display the name of employee in alphabetical order
9. Delete all the records from the table.

o/p

1. create table employee(no int, name varchar(10), des varchar(10), sal int, DOB date, dno int);

Table created

2. insert into employee values(1,'manu','mngr',3000,'9 oct 1998',2);

1 row(s) inserted

insert into employee values(2,'anu','ass',3500,'8 nov 1997',3);

1 row(s) inserted

insert into employee values(3,'siju','clerk',3800,'6 Aug 1996',4);

1 row(s) inserted

insert into employee values(4,'liju','CEO',2000,'5 june 1994',5);

1 row(s) inserted

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insert into employee values(5,'nima','emp',2500,
'10 Dec 1999',6);

1 row(s) inserted

3 Select * from employee;

ID	NAME	DES	SAL	DOB	DNO
1	manu	mngr	3000	9 oct 1998	2
2	anu	ass	3500	8 Nov 1997	3
3	siju	clerk	3800	6 Aug 1996	4
4	liju	CEO	2000	5 June 1994	5
5	nima	emp	2500	10 Dec 1999	6

4 Select * from employee where sal > 3000;

ID	NAME	DES	SAL	DOB	DNO
2	anu	ass	3500	8 Nov 1997	3
3	siju	clerk	3800	6 Aug 1996	4

5 delete from employee where dno = 6;

1 row(s) deleted

6 rename employee to emp

Table renamed

7 update empl set sal=sal+500 where des='mngr';

1 row(s) updated

8 select name from empl order by name

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NAMG
anu
liju
manu
nima
siju

9 delete from empl;
1 row(s) deleted

Excercise -3

5/9/20 Tuesday

1. create a table called client master with following fields
2. no, name, address, city, state & pincode;
2 Insert a record into the table as client number='co200', name='Jaya'.
3 Select all the records from the table
4. Select no & name from the table
5 Select unique names from the table
6 Select no., name, add, city, from the client master sorted in ascending order of client no.
7 Select no, name from client master where client no ='co1234'
8 Add client telephone no & fax no to the table
9 Modify fax no. data type as varchar
10 create a table supplier from client master Select all the fields, from client master, rename cno with supplier no & cname with supplier name

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9p

1. create table clientmaster(cno varchar(10), cname varchar(10), addr varchar(10), city varchar(10), state varchar(10), pin int);

Table created

2. insert into clientmaster values('co200', 'manu', 'ad1', 'ekm', 'kerala', 683516);

1 row(s) inserted

insert into clientmaster values('co201', 'malar', 'ad2', 'tvm', 'kerala', 683517);

1 row(s) inserted

insert into clientmaster values('co202', 'mani', 'ad3', 'ksd', 'kerala', 683518);

1 row(s) inserted

insert into clientmaster values('co203', 'manu', 'ad4', 'chennai', 'bnn', 388817);

1 row(s) inserted

insert into clientmaster values('co1234', 'paru', 'ad5', 'bnglr', 'karnataka', 555667);

1 row(s) inserted

3. Select * from client master;

CNO	CNAME	ADDR	CITY	STATE	PIN
co200	jaya	~~ekm~~ad1	ekm	kerala	683516
co201	malar	~~tvm~~ad2	tvm	kerala	683517
co202	mani	~~ksd~~ad3	ksd	kerala	683518
co203	manu	~~chenna~~ad4	chennai	bnn	388817
co1234	paru	~~bngl~~ad5	bnglr	karnataka	555667

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4 Select cno, cname from clientmaster;

CNO	CNAME
CO200	jaya
CO201	malar
CO202	mani
CO203	manu
CO1234	panu

5 Select distinct(cname) from clientmaster;

CNAME
jaya
malar
mani
manu
panu

6 select cno, cname, addr, city from clientmaster order by cno;

CNO	CNAME	ADDR	CITY
CO200	jaya	ad1	ekm
CO201	malar	ad2	tvm
CO202	mani	ad3	ksd
~~CO1234~~			
CO203	manu	ad4	chennai
CO1234	panu	ad5	bngl

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7 Select cno, cname from clientmaster where cno='C01234';

CNO	CNAME
C01234	panu

8 alter table clientmaster add(tel int, fax int);

Table altered

9 alter table clientmaster modify fax varchar(10);

Table altered

10 create table supplier as select * from clientmaster;

Table created

alter table supplier rename column cno to sno;

Table altered

alter table supplier rename column cname to sname;

Table altered

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Excercise - 4

1. Create table called distributor with fields code, name, amt.
2. Insert 5 rows into the table
3. Display all company names for amt < 70,000
4. Display distinct code & cname from table in reverse order by amt.
5. Display data for all cmpny names with amt b/n 50,000 & 80,000.
6. Set the amt field of distributor to 50,000 corresponding to distinct code 150
7. Display the name of cmpnies in alphabetic order
8. List the distinct code of those companies who's amt is 50,000 sorted by company name.
9. count the no. of rows in the table
10. select the min. amt from the table
11. Select the max. amt from the table
12. Display the total amt from the table
13. Add a new column name to the table called cmpny address to the table.

o/p

1. create table distributor(code int, name varchar(10), amt int);

Table created

2. insert into distributor values(120,'MA',50000);

1 row(s) inserted

insert into distributor values(130,'SF', 60000);

1 row(s) inserted

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insert into distributor values(140,'RBB', 70000);

1 row(s) inserted

insert into distributor values(150,'RSF', 80000);

1 row(s) inserted

insert into distributor values(160,'STR', 90000);

1 row(s) inserted

Select * from distributor;

CODE	NAME	AMT
120	MA	50000
130	SF	60000
140	RBB	70000
150	RSF	80000
160	STR	90000

3 Select name from distributor where amt < 70000

NAME
MA
SF

4 Select code,name from distributor order by amt desc;

CODE	NAME
160	STR
150	RSF
140	RBB
130	SF
120	MA

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5 Select * from distributor where amt between 50000 and 80000;

CODE	NAME	AMT
120	MA	50000
130	SF	60000
140	RBB	70000
150	RSF	80000

6 Update distributor set amt=5000 where code=150;

1 row updated

7 Select * from distributor;

CODE	NAME	AMT
120	MA	50000
130	SF	60000
140	RBB	70000
150	RSF	5000
160	STR	90000

7. Select name from distributor order by name;

NAME
MA
RBB
RSF
SF
STR

8. Select code from distributor where amt=50000 order by name;

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CODE

120

9 select count(*) from distributor;

COUNT(*)

5

(or)

Select count(code) from distributor;

COUNT(CODE)

5

10 Select min(amt) from distributor;

MIN(AMT)

5000

11 select max(amt) from distributor;

MAX(AMT)

90000

12 select sum(amt) from distributor;

SUM(AMT)

275000

13 alter table distributor add(addr varchar(20);

Table altered

select * from distributor;

CODE	NAME	AMT	ADDR
120	MA	50000	
130	SF	60000	
140	RBB	70000	
150	RSF	5000	
160	STR	90000	

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MON

Exceercise - 5

1. create a table contact with following fields id, name, (primary key), name, address, city, state & pin
2. Insert 5 rows into the table
3. Create table customer with same field of contact.
4. copy the values from contact to customer.

o/p

1. create table contact(id int primary key, name varchar(10) ad varchar(10), city varchar(10), state varchar(10), pin int);

Table created

2. insert into contact values(1,'sai','sree','ekm','kerala', 683516);

1 row(s) inserted

insert into contact values(2,'pallavi','hari','tvm','kerala', 683617);

1 row(s) inserted

insert into contact values(3,'malavi','nila','ktm','kerala', 683716);

1 row(s) inserted

insert into contact values(4,'pooja','sthree','kollam','kerala', 683817);

1 row(s) inserted

insert into contact values(5,'veena','nilayam','ekm','kerala', 653535);

1 row(s) inserted

3. create table customer as select * from contact;

Table created

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4. insert into customer select * from contact;
5 row(s) inserted

Excercise - 6

1. create table employee with following fields, id, name, designation, address and dept
2. Insert 5 rows into the table
3. Select employee name & des of employees who works in accounts dept.
4. Select id name who works in either in marketing or sales
5. Select id name of the employees who works in other than purchase dept.

o/p

1. create table employee(id int, name varchar(10), designation varchar(10), ad varchar(10), dept varchar(10));
Table created
2. ~~insert into 5 rows into the table~~
insert into employee values(1,'sai','mngr','ekm','marketing');
1 row(s) inserted
insert into employee values(2,'pallavi','sales girl','ekm', 'sales');
1 row(s) inserted
insert into employee values(3,'malai','mngr','tvm', 'purchase');
1 row(s) inserted
insert into employee values(4,'manu','CEO','ekm', 'Accounts');
1 row(s) inserted
insert into employee values(5,'anu','HR','tvm','Asst Distri');
1 row(s) inserted

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'Accounts; select * from employee;

ID	NAME	DES	AD	DEPT
1	sai	mngr	ekm	marketing
2	pallavi	salesgirl	ekm	sales
3	malar	mngr	tvm	purchase
4	manu	CEO	ekm	Accounts
5	anu	HR	tvm	Distribution

3 select name, des from employee where dept='Accounts';

NAME	DES
manu	CEO

4 select id, name from employee where dept='marketing' or dept='sales';

ID	NAME
1	sai
2	pallavi

5 select id, name from employee where dept!='purchase';

ID	NAME
1	sai
2	pallavi
4	manu
5	anu

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Tuesday

Excercise - 7

1. create table customer with fields id, name, address, city, state & pin
2. create table order with fields oid, name-order, order customer id
3. create table order line with fields orderid, product id, order quality
4. create table product with fields pro id, desc, price
5. show pro id, desc for all products
6. Show pro id & desc of all products who's name contain a string 'table'.
7. Show pro id & desc sorted by price.

1. create table customer(cid int primary key, name varchar(50), ad varchar(50), city varchar(50), state varchar(50), pin int);

Table created

2. create table order(oid int primary key, odate date, ~~cid date~~, cid int references customer(cid));

Table created

3 create table order line(oid int references order(oid), pid int primary key, oqty varchar(50));

Table created

4. create table product(pid int references order line(pid int, des varchar(50), price int);

Table created

→ insert into customer values(110, 'suja', 'karuveetil', 'thrissur', 'kerala', 683516);

1 row(s) inserted

insert into customer values(103, 'Thahani', 'valiyakathu', 'ernakulam', 'kerala', 683535);

1 row(s) inserted

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insert into customer values(156,'sree','vazhapully',
'kozhikode','kerala',683556);

1 row(s) inserted

insert into customer values(140,'ammu','aranyam','kadav',
'kerala',683161);

1 row(s) inserted

insert into customer values(202,'fathima','kattokaram',
'palakkad','kerala',680012);

1 row(s) inserted

-> select * from customer;

CID	NAME	AD	CITY	STATE	PIN
110	Suja	karuveetil	thrissur	kerala	683516
103	Thahani	valiyakath	ernakulam	kerala	683535
156	sree	vazhapully	kozhikode	kerala	683556
140	ammu	aranyam	kollam	kerala	683161
202	fathima	kattokaram	palakkad	kerala	680012

-> insert into order values(11402,'04-June-18',110);

1 row(s) inserted

insert into order values(24053,'25-Jan-18',110);

1 row(s) inserted

insert into order values(625014,'29-Dec-17',140);

1 row(s) inserted

insert into order values(156,'16-Feb-18',202);

1 row(s) inserted

insert into order values(15606,'20-Apr-18',156);

1 row(s) inserted

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→ Select * from order;

OID	ODATE	CID
11402	04-JUN-18	110
24053	25-JUN-18	110
625014	29-DEC-17	140
156	16-Feb-18	202
15606	20-Apr-18	156

→ insert into order line values(11402, 147, 'good');
1 row(s) inserted
insert into order line values(156, 568, 'avg');
1 row(s) inserted
insert into order line values(15606, 851, 'bad');
1 row(s) inserted
insert into order line values(24053, 230, 'excellent');
1 row(s) inserted
insert into order line values(625014, 500, 'avg');
1 row(s) inserted

→ Select * from order line;

OID	PID	OQTY
11402	147	good
156	568	avg
15606	851	bad
24053	230	excellent
625014	500	avg

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→ insert into product values(147,'dinning table',54000);
1 row(s) inserted
insert into product values(568,'office chair',25000);
1 row(s) inserted
insert into product values(500,'book stand',15000);
1 row(s) inserted
insert into product values(851,'photo frame',20000);
1 row(s) inserted
insert into product values(230,'study table',1250);
1 row(s) inserted

→ select * from product;

PID	DES	PRICE
147	dinning table	54000
568	office chair	25000
500	book stand	15000
851	photo frame	20000
230	study table	1250

5. select pid,desc from product;

PID	DES
147	dinning table
568	office chair
500	book stand
851	photo frame
230	study table

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6. Select pid, des from product where des like '%table';

PID	DES
230	study table
147	dinning table

7. Select pid, des from product order by price;

PID	DES
854	
230	study table
500	book stand
851	photo frame
568	office chair
147	dinning table

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Excercise - 8

1. create following table cd details with fields cd id, artists, year & title.
2. Insert some values into the table
3. Add a new column to the table called director with datatype varchar
4. Drop column artist
5. Drop primary key
6. change the name of the table.

o/p

1. create table cddetails(cid int primary key, artist varchar(50), year int, title varchar(50));

Table created

2. insert into cd details values(2410, 'charlie chapline', 1942, 'Modern times');

1 row(s) inserted

insert into cd details values(2043, 'Rock', 1995, 'The mummy returns');

1 row(s) inserted

insert into cd details values(2405, 'shahrukkhan', 1998, 'kabhi kushi kabhi hum');

1 row(s) inserted

→ Select * from cd details;

CID	ARTIST	YEAR	TITLE
2410	charlie chapline	1942	Modern times
2043	Rock	1995	The mummy returns
2405	Shah rut khan	1998	kabhi kushi kabhi hum

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3 alter table codetails add(director varchar(20));
Table altered

→ select * from codetails;

CID	ARTIST	YEAR	TITLE	DIRECTOR
2410	charlie chapline	1942	modern times	
2043	Rock	1995	The mummy returns	
2045	shahruk khan	1998	kabhi kushi kabhi hum	

4. alter table codetails drop column artist;
Table altered

5 select * from codetails;

CID	YEAR	TITLE	DIRECTOR
2410	1942	charlie chapline	modern times
2043	1995	Rock	The mummy returns
2045	1998	shahruk khan	kabhi kushi kabhi hum

5. alter table codetails drop primary key;
Table altered

6 alter table codetails rename to co;
Table altered
(or)
Rename codetails to co;
Table renamed

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Excercise 9

1. Create the following table with fields product id, product code, name, quantity & price
2. Describe the fields of the table
3. Add a new column tax to the table
4. Write the command to drop column tax
5. " " change the datatype of any column.
6. Change name of table
7. Write the command to change any of the column name
8. Delete the product with pid = 105.

O/P

1. create table product(pid int, code int, name varchar(20), qty int, price float);

   Table created

2. insert into product values(101, 2030, 'dairy milk', 20, 40);

   1 row(s) inserted

insert into product values(103, 2031, 'milky bar', 20, 10);

   1 row(s) inserted

insert into product values(105, 2032, 'Bournville', 50, 100);

   1 row(s) inserted.

insert into product values(106, 2033, 'Fun fan', 30, 100);

   1 row(s) inserted

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2. desc product;

NAME	NULL?	TYPE
PID		NUMBER(38)
CODE		NUMBER(38)
NAME		VARCHAR(20)
QTY		NUMBER(38)
PRIC		FLOAT(126)

3. alter table product add(tax float);
   Table altered

4. alter table product drop column tax;
   Table altered

5. alter table product modify price number;
   Table altered

6. alter table product rename to prdct;
   Table altered

7. alter table prdct rename column qty to quantity;
   Table altered

8. delete from prdct where pid=105;
   1 row deleted

→ select * from prdct;

PID	CODE	NAME	QUANTITY	PRIC
101	2030	dairy milk	20	40
103	2031	milky bar	20	10
~~105~~	~~2032~~	~~Bournville~~	~~50~~	~~100~~
106	2033	Fun fan	30	100

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Excercise-10

28/9/20
mon

create 2 tables called

i) Sales order with fields sales order no, client name & order date.

client master with fields client no. & name

ii) Display all order info. like sales order no, client name & order dates for all the order placed by the client in the ascending order of date.

Soln

i) create table order(sono. int primary key, cno int, odate varchar(30));

Table created

insert into order values(511, 101, 12-05-2016);
insert into order values(504, 161, 25-9-2016);
insert into order values(522, 151, 19-8-2016);

create table client master(cno int references order, name varchar(30));

Table created

insert into clientmaster values(101, 'Aswathy');
insert into clientmaster values(161, 'febin');
insert into clientmaster values(151, 'Athira');

Select * from order;

SONO	CNO	ODATE
511	101	12-05-2016
504	161	25-9-2016
522	151	19-8-2016

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Select * from client master;

CNO	NAME
101	Aswathy
161	Febin
151	Athira

ii) Select sono, name, odate from order join clientmaste
on order.cno=clientmaster.cno order by order.

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Excercise-11

1 i) create a table x where column a,b&c : a numeric 10, b&c varchar(10);
set 'a' as primary key

ii) create table y where columns p,q &r p-numeric 10. q&r - varchar(10);
Set p as foreign key which will refer the attribute 'a' of x table.

i) create table x(a numeric(10), b varchar(10), c varchar(10));

Table created

alter table x add primary key(a);

Table altered

create table y(p numeric(10). references on delete cascade x(a), q varchar(10), r varchar(10));

Table created

insert into x values(101,'a','b');

1 row(s) inserted

insert into y values(101,'p','q');

1 row(s) inserted

delete from tab where a=101;

1 row(s) deleted

Select * from tab where g=2;

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Excercise - 12

i) create a table species with fields id and name. id is considered as primary key.

ii) insert 5 records to the table

iii) create a table zoo with field id (foreign key) serial no. as 1° key (name)

iv) insert 5 records to the table

v) Display all records

i) create table species(sid int primary key, sname varchar(20));

Table created

ii) insert into species values(101,'Lion');

1 row inserted

insert into species values(102,'zebra');

1 row inserted

insert into species values(103,'Tiger');

1 row inserted

insert into species values(104,'cat');

1 row inserted

insert into species values(105,'dog');

1 row inserted

iii) create table zoo(zid int references species(sid), sno. int primary key, zname varchar(20));

Table created

iv) insert into zoo values(101,10,'lion');

1 row inserted

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insert into zoo values(102, 20, 'zebra');
1 row inserted

insert into zoo values(103, 30, 'tiger');
1 row inserted

insert into zoo values(104, 40, 'cat');
1 row inserted

insert into zoo values(105, 50, 'dog');
1 row inserted

v) select * from species;

sid	sname
101	Lion
102	zebra
103	Tiger
104	cat
105	dog

select * from zoo;

sid	sno	sname
101	10	lion
102	20	zebra
103	30	tiger
104	40	cat
105	50	dog

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Excercise-13

i) create table employee master with field empid as primary key.

ii) create table transaction master with its foreign key as transemployee with an delete cascade option.

iii) insert some rows in both tables.

iv) delete the record from employee master with eid=101.

v) create table transmaster with its foreign key as trans-employee with ondelete set null option.

vi) insert some records in the table

vii) delete a record from employee master with eid=102.

i) create table empmaster(emid int primary key);
Table created

ii) create table transmaster(tid varchar(20), temp reference empmaster(emid) on delete cascade);
Table created

iii) insert into empmaster values(100);
1 row inserted

insert into empmaster values(102);
1 row inserted

insert into empmaster values(103);
1 row inserted

· select * from empmaster;

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emio

101

102

103

- insert into tranmaster values('t01', 101);
  1 row inserted

insert into tranmaster values('t02', 102);
1 row inserted

insert into tranmaster values('t03', 103);
1 row inserted

- select * from tranmaster;

tio	temp
t01	101
t02	102
t03	103

iv) delete from empmaster where emio = 101;
1 row deleted

- select * from empmaster;

emio

102

103

v) create table tranmaster1(tranio varchar(20), tranemp references empmaster(emio) on delete set NULL tramdate date); Table created

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vi) insert into transmaster values('103', 103, 15-JUL-1998)

1 row inserted

vii) delete from empmaster where emid=102.

1 row deleted

. Select *, from transmaster;

transid	transemp	transdate
103		15-JUL-1998

Exec

Excercise - 14

create the following tables

sailors(sid, sname, age)
boats(bid, bname, color)
reserve(sid, bid, day)

1. find the names & age of sailors
2. find all sailors with age>22
3. find names of sailors who have reserve boat no. 103
4. find sid of all sailors who have reserve a red boat.
5. find the colors of boats reserved by Nikhil
6. find the names of sailors who have received atleast one boat.
7. find the age of sailors whose name begin & end with p and have atleast 3 characters.
8. find the names of sailors who have reserve a red / a green boat.
9. find the sid of all sailors who have reserve red boats but not green boat.
10. find the avg age of all sailors.
11. find the names of sailors who have reserved all boats
12. find the name & age of oldest sailor
13. count the no. of different sailors

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- create table boats(bid int primary key, bname varchar(20), color varchar(20));

  Table created

- create table sailors(sid int primary key, sname varchar(20), age int);

  Table created

- create table reserve(sid references sailors, bid references boats, day date);

  Table created

- insert into boats values(201, 'Titanic', 'red');

  1 row inserted

- insert into boats values(202, 'Rolex', 'green');

  1 row inserted

- insert into boats values(203, 'pegasus', 'blue');

  1 row inserted

- insert into sailors values(101, 'Nivin', 22);

  1 row inserted

- insert into sailors values(102, 'Nikhil', 25);

  1 row inserted

- insert into sailors values(103, 'Anu Nikhil', 30);

  1 row inserted

- insert into reserve values(101, 201, '10-APR-2017');

  1 row inserted

- insert into reserve values(102, 202, '11-MAR-2016');

  1 row inserted

- insert into reserve values(103, 203, '16-APR-2014');

  1 row inserted

1. select sname, age from sailors;

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SNAME	AGE
Nivin	22
Nikhil	25
Anu	30

2. select * from sailors where age>22;

SID	SNAME	AGE
102	Nikhil	25
103	Anu	30

3.

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