ADBMS LAB

CO1- Programs

create table student_darsana(rollno integer primary key,name varchar(20),dob date, dept varchar(5),marks float);

A) SQL> insert into student_darsana values(1,'Amitha','18-jun-1998','CS',480);

1 row created.

SQL> insert into student_darsanavalues(2,'Arya','12-jul-1989','IT',500);

1 row created.

SQL> insert into student_darsana values(3,'George',’19-jan-1989','CS',489);

1 row created.

SQL> insert into student_darsana values(4,'Gouuripriya','28-nov1989','CS',495);

1 row created.

SQL> insert into student_darsana values(5,'Henin','12-dec-1988','IT',525);

1 row created.

SQL> insert into student_darsana values(6,'Ishana','25-dec-1988','CS',500);

1 row created.

SQL> insert into student_darsana values(7,'Pranav','27-nov-1989','CS',510);

1 row created.

SQL> select * from student_darsana;

ROLLNO	NAME	DOB	DEPT	MARKS
1	Amitha	18-JUN-98	CS	480
2	Arya	12-JUL-89	IT	500
3	George	19-JAN-89	CS	489
4	Gourikripa	28-NOV-89	CS	495
5	Henin	12-DEC-88	IT	525
6	Ishana	25-DEC- 88	CS	500
7	Pranav	27-NOV-89	CS	510

7 rows selected.

B) SQL> alter table student_darsana add(address varchar(10));

Table altered.

SQL> alter table student_darsana modify(name varchar(20));

Table altered.

C) SQL> select * student darsana;

ROLLNO	NAME	DOB	DEPT	MARKS	ADDRESS
1	Amitha	18-JUN-98	CS	480	
2	Arya	12-JUL-89	IT	500	
3	George	19-JAN-89	CS	489	
4	Gourikripa	28-NOV-89	CS	495	
5	Henin	12-DEC-88	IT	525	
6	Ishana	25-DEC- 88	CS	500	
7	Pranav	27-NOV-89	CS	510	

7 rows selected.

SQL> desc student_darsana;

Name	Null?	Type
ROLLNO	NOT NULL	NUMBER(38)
NAME		VARCHAR2(20)
DOB		DATE
DEPT		VARCHAR2(5)
MARKS		FLOAT(126)
ADDRESS		VARCHAR2(10)

D) SQL> alter table student_darsana modify(address varchar(30));

Table altered.

SQL> alter table student_darsana modify(address varchar(30));

Table altered.

SQL> update student_darsana set address='NO:5,Gandhinagar' where rollno=1;

1 row updated.

SQL> update student_darsana set address='Flat No:5A,Skyline Aluva' where rollno=2;

1 row updated.

SQL> update student_darsana set address='Apple Heights,Padivattom' where rollno=3;

1 row updated.

SQL> update student_darsana set address='Green Valley,Cochin' where rollno=7;

1 row updated.

SQL> set linesize 120

SQL> select * from student_darsana;

ROLLNO	NAME	DOB	DEPT	MARKS	ADDRESS
1	Amitha	18-JUN-98	CS	480	NO:5,Gandhinagar
2	Arya	12-JUL-89	IT	500	Flat No:5A,Skyline Aluva
3	George	19-JAN-89	CS	489	Apple Heights,Padivattom
4	Gourikripa	28-NOV-89	CS	495	
5	Henin	12-DEC-88	IT	525	
6	Ishana	25-DEC- 88	CS	500	
7	Pranav	27-NOV-89	CS	510	Green Valley,Cochin

E) SQL> select name,dob from student_darsana where months_between(sysdate,dob)/12<22;

G) SQL> select name from student_darsana where dept= 'CS' and marks>500;

no rows selected.

F) SQL> select * from student_darsana order by marks;

ROLLNO	NAME	DOB	DEPT	MARKS	ADDRESS
1	Amitha	18-JUN-98	CS	480	NO:5,Gandhinagar
3	George	19-JAN-89	CS	489	Apple Heights,Padivattom
4	Gourikripa	28-NOV-89	CS	495	
6	Ishana	25-DEC- 88	CS	500	
2	Arya	12-JUL-89	IT	500	Flat No:5A,Skyline Aluva
7	Pranav	27-NOV-89	CS	510	GreeValley,Cochin
5	Henin	12-DEC-88	IT	525	

7 rows selected

G) select name from student_sanchana where dept='CS' and marks>500;

NAME

Pravav

H) SQL> select name from student_darsana where marks>(select avg(marks)from student_darsana);

NAME

Arya

Ishana

Pranav

I) drop table student_sanchana;

Table dropped

CO1-Exp-2

SQL> create table emp(emp_id char(8) check(emp_id like 'E%') primary key,emp_name varchar(18),street_no int,city varchar(18));

Table created.

SQL> insert into emp values('E-101','Adarsh',101,'MG Road');

1 row created**.**

SQL> insert into emp values('E-102','Bonny',101,'MG Road');

1 row created.

SQL> insert into emp values('E-103','Catherin',102,'Cochin'); 1

row created.

SQL> insert into emp values('E-104','Glenn',104,'Ernakulam');

1 row created.

SQL> insert into emp values('E-105','Dinu',103,'PMNA');

1 row created.

SQL> insert into emp values('E-106','Anu',104,'Eranakulam');

1 row created.

SQL> insert into emp values('E-107','Ammu',105,'Malappuram');

1 row created.

SQL> insert into emp values('E-108','Banu',101,'MG Road');

1 row created.

SQL> insert into emp values('E-109','Lehen',102,'Cochin'); 1

row created.

SQL> insert into emp values('E-110','Zayan',106,'Pattambi');

1 row created.

SQL> insert into emp values('E-111','Rahul',107,'Calicut');

1 row created.

SQL> select * from emp;

EMP_ID	EMP_NAME	STREET_NO	CITY
E-101	Adarsh	101	MG Road
E-102	Bonny	101	MG Road
E-103	Catherin	102	Cochin
E-104	Glenn	104	Ernakulam
E-105	Dinu	103	PMNA
E-106	Anu	104	Eranakulam
E-107	Ammu	105	Malappuram
E-108	Banu	101	MG Road
E-109	Lehen	102	Cochin
E-110	Zayan	106	Pattambi
E-111	Rahul	107	Calicut

SQL> create table company(company_name varchar(18) primary key,city varchar(18));

Table created.

SQL> insert into company values('SBI','MG Road');

1 row created.

SQL> insert into company values('SBT','MG Road');

1 row created.

SQL> insert into company values('Federal','Broadway');

1 row created.

SQL> insert into company values('Indian Bank','Cochin');

1 row created.

SQL> insert into company values('SIB','Ernakulam');

1 row created.

SQL> select * from company;

COMPANY_NAME	CITY
SBI	MG Road
SBT	MG Road
Federal	Broadway
Indian Bank	Cochin
SIB	Ernakulam

SQL> create table works(emp_id char(8) references emp(emp_id),company_name varchar(18) references company(company_name),salary float,primary key(emp_id,company_name));

Table created.

SQL> insert into works values('E-101','SBI',71000);

1 row created.

SQL> insert into works values('E-102','SBI',90000);

1 row created.

SQL> insert into works values('E-103','SBT',40000);

1 row created.

SQL> insert into works values('E-104','Federal',37000);

1 row created.

SQL>insert into works values('E-105','SBT',17000)

1 row created.

SQL> select * from works;

EMP_ID	COMPANY_NAME	SALARY
E-101	SBI	71000
E-102	SBI	90000
E-103	SBT	40000
E-104	Federal	37000
E-105	SB1	17000

SQL> create table manages(emp_id char(8) references emp(emp_id),manager_id char(8) references emp(emp_id),unique(emp_id,manager_id));

Table created.

SQL> insert into manages values('E-101','E-102');

1 row created.

SQL> insert into manages values('E-102',NULL);

1 row created.

SQL> insert into manages values('E-103','E-110');

1 row created.

SQL> insert into manages values('E-104','E-111');

1 row created.

SQL> insert into manages values('E-105','E-110');

1 row created.

SQL> select * from manages;

EMP_ID MANAGER_

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E-101 E-102

E-102

E-103 E-110

E-104 E-111

E-105 E-110

A) SQL> select emp_name from works,emp where company_name='SBI' and emp.emp_id=works.emp_id;

EMP_NAME

Adarsh

Bonny

B) SQL> select emp.emp_name from emp,works,company where emp.emp_id=works.emp_id and works.company_name=company.company_name and emp.city=company.city;

EMP_NAME

Adarsh

Bonny

C) SQL> select emp_id from works w1,(select avg(salary) as avgsal,company_name from works group by company_name) w2 where w1.company_name=w2.company_name and w1.salary>w2.avgsal;

EMP_ID

E-102

D) SQL> update works set salary=salary*1.1 where emp_id in (select manager_id from manages) and company_name='SBI';

1 row updated.

SQL> select * from works;

EMP_ID	COMPANY_NAME	SALARY
E-101	SBI	71000
E-102	SBI	108900
E-103	SBT	40000
E-104	Federal	37000
E-105	SB1	17000

E) SQL> select company_name from works group by company_name having count(emp_id)>=all(select count(emp_id)from works group by company_name);

COMPANY_NAME
SBI

SQL> select * from works;

EMP_ID	COMPANY_NAME	SALARY
E-101	SBI	71000
E-102	SBI	108900
E-103	SBT	40000
E-104	Federal	37000

F) SQL> select company_name from works group by company_name having avg (salary)>(select avg(salary) from works group by company_name having company_name='SBT');

COMPANY_NAME

SBI

SQL> commit;

Commit complete.

CO1-Exp-3

SQL> create table customer(id integer primary key,name varchar(20),age char(20),address varchar(20),salary float);

Table created.

SQL> insert into customer values(1,'Ramesh',32,'Ahmedabad',2000.00);

1 row created.

SQL> insert into customer values(2,'Khilan',25,'Dhelhi',1500.00);

1 row created.

SQL> insert into customer values(3,'Kaushik',23,'Kota',2000.00);

1 row created.

SQL> insert into customer values(4,'Chaitali',25,'Mumbai',6500.00);

1 row created.

SQL> insert into customer values(5,'Hardik',27,'Bhopal',8500.00);

1 row created.

SQL> insert into customer values(6,'Komal',22,'MP',4500.00);

1 row created.

SQL> insert into customer values(7,'Muffy',24,'Indore',10000.00);

1 row created.

SQL> set linesize 120

SQL> select * from customer;

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000
2	Khilan	25	Dhelhi	1500
3	Kaushik	23	Kota	2000
4	Chaitali	25	Mumbai	6500
5	Hardik	27	Bhopal	8500
6	Komal	22	MP	4500
7	Muffy	24	Indore	10000

7 rows selected.

SQL> create table orders(oid integer,dates varchar(15),customer_id integer,amount integer);

Table created.

SQL> insert into orders values(102,'2009-10-08',3,3000);

1 row created**.**

SQL> insert into orders values(100,'2009-10-08',3,1500);

1 row created.

SQL> insert into orders values(101,'2009-11-20',2,1560);

1 row created.

SQL> insert into orders values(103,'2008-05-20',4,2060);

SQL> select * from orders;

OID	DATES	CUSTOMER_ID	AMOUNT
102	2009-10-08	3	3000
100	2009-10-08	3	1500
101	2009-11-20	2	1560
103	2008-05-20	4	2060

SQL> commit;

Commit complete.

A) SQL> select id,name,amount,dates from customer inner join orders on customer.id = orders.customer_id;

ID	NAME	AMOUNT	DATES
2	Khilan	1560	2009-11-20
3	Kaushik	1500	2009-10-08
3	Kaushik	3000	2009-10-08
4	Chaitali	2060	2008-05-20

B) SQL> select id,name,amount,dates from customer left join orders on customer.id = orders.customer_id;

ID	NAME	AMOUNT	DATES
3	Kaushik	3000	2009-10-08
3	Kaushik	1500	2009-10-08
2	Khilan	1560	2009-11-20
4	Chaitali	2060	2008-05-20
5	Hardik		
1	Ramesh		
6	Komal		
7	Muffy		

8 rows selected.

C) SQL> select id,name,amount,dates from customer right join orders on customer.id = orders.customer_id;

ID	NAME	AMOUNT	DATES
2	Khilan	1560	2009-11-20
3	Kaushik	1500	2009-10-08
3	Kaushik	3000	2009-10-08
4	Chaitali	2060	2008-05-20

D) SQL> select id,name,amount,dates from customer full join orders on customer.id = orders.customer_id;

ID	NAME	AMOUNT	DATES
1	Ramesh		
2	Khilan	1560	2009-11-20
3	Kaushik	1500	2009-10-08
3	Kaushik	3000	2009-10-08
4	Chaitali	2060	2008-05-20
5	Hardik		
6	Komal		
7	Muffy		

CO1-Exp-4

SQL> create table Emply(name varchar2(10),da number(10),hra number(10),ta number(10),salary number(10));

Table created.

SQL> insert into Emply values('&name','&da','&hra','&ta','&salary');

Enter value for name: Allu

Enter value for da: 1000

Enter value for hra: 2000

Enter value for ta: 1000 Enter value for salary: 15000

old 1: insert into Emplyvalues('&name','&da','&hra','&ta','&salary')

new1: insert into Emply values('Allu','1000','2000','1000','15000')

1 row created.

SQL> insert into Emply values('&name','&da','&hra','&ta','&salary');

Enter value for name: Akhil

Enter value for da: 1000

Enter value for hra: 3000

Enter value for ta: 15000

Enter value for salary: 20000

old 1: insert into Emply values('&name','&da','&hra','&ta','&salary')

new 1: insert into Emply values('Akhil','1000','3000','15000','20000')

1 row created.

SQL> insert into Emply values('&name','&da','&hra','&ta','&salary');

Enter value for name: Babu

Enter value for da: 500

Enter value for hra: 2000

Enter value for ta: 500

Enter value for salary: 90000

old 1: insert into Emplyvalues('&name','&da','&hra','&ta','&salary')

new1: insert into Emply values('Babu','500','2000','500','90000')

1 row created.

SQL> insert into Emply values('&name','&da','&hra','&ta','&salary');

Enter value for name: Shella

Enter value for da: 900

Enter value for hra: 2500

Enter value for ta: 1000

Enter value for salary: 11000

old 1: insert into Emply values('&name','&da','&hra','&ta','&salary')

new 1: insert into Emply values('Shella','900','2500','1000','11000')

1 row created.

SQL> insert into Emply values('&name','&da','&hra','&ta','&salary');

Enter value for name: Zebha

Enter value for da: 1500

Enter value for hra: 1000

Enter value for ta: 2000 Enter value for salary: 100000

old 1: insert into Emply values('&name','&da','&hra','&ta','&salary')

new 1: insert into Emply values('Zebha','1500','1000','2000','100000')

1 row created.

SQL> select * from Emply;

NAME	DA	HRA	TA	SALARY
Allu	1000	2000	1000	15000
Akhil	1000	3000	15000	20000
Babu	500	2000	500	90000
Shella	900	2500	1000	11000
Zebha	1500	1000	2000	100000

A) SQL> create view Emplyview as select name,salary from Emply where salary >10000;

View created.

SQL> select * from Emplyview;

NAME	SALARY
Allu	15000
Akhil	20000
Babu	90000
Shella	11000
Zebha	100000

B) SQL> update Emply set salary = 25000;

5 rows updated.

SQL> select * from Emply;

NAME	DA	HRA	TA	SALARY
Allu	1000	2000	1000	25000
Akhil	1000	3000	15000	25000
Babu	500	2000	500	25000
Shella	900	2500	1000	25000
Zebha	1500	1000	2000	25000

SQL> select * from Emplyview;

NAME	SALARY
Allu	25000
Akhil	25000

Babu 25000

Shella 25000

Zebha 25000

C) SQL> update Emplyview set salary = 1000;

5 rows updated.

SQL> select * from Emplyview;

no rows selected

SQL> select * from Emply;

NAME	DA	HRA	TA	SALARY
Allu	1000	2000	1000	1000
Akhil	1000	3000	15000	1000
Babu	500	2000	500	1000
Shella	900	2500	1000	1000
Zebha	1500	1000	2000	1000

*