sql course

SQL> create table student (sid number(3) primary key,firstname varchar2(10),lastname varchar2(10),sage number(3));

Table created.

SQL> create table department (sid number(3),deptid number(3));

Table created.

SQL> alter table department add deptname varchar2(10);

Table altered.

SQL> insert into student values(101,'vicky','vignesh',20);

1 row created.

SQL> insert into student values(102,'vasanth','kumar',20);

1 row created.

SQL> insert into student values(103,'deepak','dharshan',19);

1 row created.

SQL> insert into student values(103,'akash','mukesh',18);

insert into student values(103,'akash','mukesh',18)

\*

ERROR at line 1:

ORA-00001: unique constraint (SYSTEM.SYS\_C004088) violated

SQL> select\*from student;

SID FIRSTNAME LASTNAME SAGE

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101 vicky vignesh 20

102 vasanth kumar 20

103 deepak dharshan 19

SQL> insert into student values(104,'akash','mukesh',18);

1 row created.

SQL> select\*from student;

SID FIRSTNAME LASTNAME SAGE

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101 vicky vignesh 20

102 vasanth kumar 20

103 deepak dharshan 19

104 akash mukesh 18

SQL> insert into student values(105,'bharath','kumar',16);

1 row created.

SQL> insert into student values(106,'deva','raj',14);

1 row created.

SQL> select\*from student;

SID FIRSTNAME LASTNAME SAGE

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101 vicky vignesh 20

102 vasanth kumar 20

103 deepak dharshan 19

104 akash mukesh 18

105 bharath kumar 16

106 deva raj 14

6 rows selected.

SQL> desc department

Name Null? Type

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SID NUMBER(3)

DEPTID NUMBER(3)

DEPTNAME VARCHAR2(10)

SQL> insert into department values(101,201,'cs');

1 row created.

SQL> insert into department values(102,202,'maths');

1 row created.

SQL> insert into department values(103,202,'maths');

1 row created.

SQL> insert into department values(104,203,'civil');

1 row created.

SQL> insert into department values(105,203,'civil');

1 row created.

SQL> insert into department values(106,201,'cs');

1 row created.

SQL> select\*from department;

SID DEPTID DEPTNAME

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101 201 cs

102 202 maths

103 202 maths

104 203 civil

105 203 civil

106 201 cs

6 rows selected.

SQL> alter table department add foreign key(sid) references student(sid);

Table altered.

SQL> create table contact(sid number(3),email varchar2(15),mobile number(10));

Table created.

SQL> insert into contact(101,'abc123@gmail',8841816090);

insert into contact(101,'abc123@gmail',8841816090)

\*

ERROR at line 1:

ORA-00928: missing SELECT keyword

SQL> insert into contact values(101,'abc123@gmail',8841816090);

1 row created.

SQL> insert into contact values(101,'abc124@gmail',8841816091);

1 row created.

SQL> update contact set sid=102 where mobile=8841816091;

1 row updated.

SQL> insert into contact values(103,'abc125@gmail',8841816092);

1 row created.

SQL> insert into contact values(104,'abc126@gmail',8841816093);

1 row created.

SQL> insert into contact values(105,'abc127@gmail',8841816094);

1 row created.

SQL> insert into contact values(106,'abc128@gmail',8841816095);

1 row created.

SQL> select\*from contact;

SID EMAIL MOBILE

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101 abc123@gmail 8841816090

102 abc124@gmail 8841816091

103 abc125@gmail 8841816092

104 abc126@gmail 8841816093

105 abc127@gmail 8841816094

106 abc128@gmail 8841816095

6 rows selected.

SQL> alter table contact add foreign key(sid) fkc references student(sid);

alter table contact add foreign key(sid) fkc references student(sid)

\*

ERROR at line 1:

ORA-00905: missing keyword

SQL> alter table contact add fkc foreign key(sid) references student(sid);

alter table contact add fkc foreign key(sid) references student(sid)

\*

ERROR at line 1:

ORA-01735: invalid ALTER TABLE option

SQL> alter table contact add foreign key(sid) references student(sid);

Table altered.

SQL> create view vicky2 as select s.sid,s.firstname,d.deptname,c.email from student s,department d,contact c where s.sid=d.sid and s.sid=c.sid;

View created.

SQL> select \*from vicky2;

SID FIRSTNAME DEPTNAME EMAIL

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101 vicky cs abc123@gmail

102 vasanth maths abc124@gmail

103 deepak maths abc125@gmail

104 akash civil abc126@gmail

105 bharath civil abc127@gmail

106 deva cs abc128@gmail

6 rows selected.

SQL> create view vcon as select\*from contact;

View created.

SQL> select\*from vcon;

SID EMAIL MOBILE

---------- --------------- ----------

101 abc123@gmail 8841816090

102 abc124@gmail 8841816091

103 abc125@gmail 8841816092

104 abc126@gmail 8841816093

105 abc127@gmail 8841816094

106 abc128@gmail 8841816095

6 rows selected.

SQL> update vcon set mobile=1234567890 where sid=101;

1 row updated.

SQL> select\*from contact;

SID EMAIL MOBILE

---------- --------------- ----------

101 abc123@gmail 1234567890

102 abc124@gmail 8841816091

103 abc125@gmail 8841816092

104 abc126@gmail 8841816093

105 abc127@gmail 8841816094

106 abc128@gmail 8841816095

6 rows selected.

SQL> select\*from vcon;

SID EMAIL MOBILE

---------- --------------- ----------

101 abc123@gmail 1234567890

102 abc124@gmail 8841816091

103 abc125@gmail 8841816092

104 abc126@gmail 8841816093

105 abc127@gmail 8841816094

106 abc128@gmail 8841816095

6 rows selected.

SQL> update contact set mobile=0987654321 where sid=102;

1 row updated.

SQL> select\*from contact;

SID EMAIL MOBILE

---------- --------------- ----------

101 abc123@gmail 1234567890

102 abc124@gmail 987654321

103 abc125@gmail 8841816092

104 abc126@gmail 8841816093

105 abc127@gmail 8841816094

106 abc128@gmail 8841816095

6 rows selected.

SQL> select\*from vcon;

SID EMAIL MOBILE

---------- --------------- ----------

101 abc123@gmail 1234567890

102 abc124@gmail 987654321

103 abc125@gmail 8841816092

104 abc126@gmail 8841816093

105 abc127@gmail 8841816094

106 abc128@gmail 8841816095

6 rows selected.

SQL>

SUBQUERIES

SQL> select\*from vicky2;

SID FIRSTNAME DEPTNAME EMAIL

---------- ---------- ---------- ---------------

101 vicky cs abc123@gmail

102 vasanth maths abc124@gmail

103 deepak maths abc125@gmail

104 akash civil abc126@gmail

105 bharath civil abc127@gmail

106 deva cs abc128@gmail

SQL> select sid,firstname from vicky2 where deptname = (select deptname from vicky2 where firstname ='deepak');

SID FIRSTNAME

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102 vasanth

103 deepak

SQL> select sid,firstname from vicky2 where deptname in (select deptname from vicky2 where firstname ='deepak'or firstname='deva');

SID FIRSTNAME

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103 deepak

102 vasanth

106 deva

101 vicky