

SQL> ----- 1906055 : Lakhan Kumawat -----

SQL>

SQL> create table stdmain(

2 Rollno number(4) primary key,

3 Name varchar(10),

4 State varchar(10),

5 Dob date check(Dob>='01-Jan-1990' and Dob<='01-Jan-2000'),

6 branch varchar2(5), check(branch in('CSE','ECE','EEE'))

7 );

Table created.

SQL> insert into stdmain values(1701,'Arvind','WB','15-Jan-1999','CSE');

1 row created.

SQL> insert into stdmain values(1702,'Jhon','MH','02-Mar-1999','EEE');

1 row created.

SQL> insert into stdmain values(1703,'Mohan','UP','15-Jul-1991','ECE');

1 row created.

SQL> insert into stdmain values(1704,'Ravi','MP','12-May-1994','CSE');

1 row created.

SQL> insert into stdmain values(1705,'Karim','BR','10-Mar-1991','ECE');

1 row created.

```
SQL> insert into stdmain values(1706,'Sita','UP','8-Dec-1990','EEE');
```

1 row created.

```
SQL> insert into stdmain values(1707,'Pintu','BR','17-Oct-1992','CSE');
```

1 row created.

```
SQL> select * from stdmain;
```

ROLLNO	NAME	STATE	DOB	BRANC
1701	Arvind	WB	15-JAN-99	CSE
1702	Jhon	MH	02-MAR-99	EEE
1703	Mohan	UP	15-JUL-91	ECE
1704	Ravi	MP	12-MAY-94	CSE
1705	Karim	BR	10-MAR-91	ECE
1706	Sita	UP	08-DEC-90	EEE
1707	Pintu	BR	17-OCT-92	CSE

7 rows selected.

```
SQL> alter table students add city varchar(10);
```

Table altered.

```
SQL> select * from stdmain;
```

ROLLNO	NAME	STATE	DOB	BRANC
1701	Arvind	WB	15-JAN-99	CSE
1702	Jhon	MH	02-MAR-99	EEE
1703	Mohan	UP	15-JUL-91	ECE
1704	Ravi	MP	12-MAY-94	CSE
1705	Karim	BR	10-MAR-91	ECE
1706	Sita	UP	08-DEC-90	EEE
1707	Pintu	BR	17-OCT-92	CSE

7 rows selected.

```
SQL> alter table stdmain add city varchar(10);
```

Table altered.

```
SQL> update stdmain set city='Kolkata' where Rollno=1701;
```

1 row updated.

```
SQL> update stdmain set city='Mumbai' where Rollno=1702;
```

1 row updated.

```
SQL> update stdmain set city='Delhi' where Rollno=1703;
```

1 row updated.

```
SQL> update stdmain set city='Bhopal' where Rollno=1704;
```

1 row updated.

```
SQL> update stdmain set city='Patna' where Rollno=1705;
```

1 row updated.

```
SQL> update stdmain set city='Kanpur' where Rollno=1706;
```

1 row updated.

```
SQL> update stdmain set city='Chennai' where Rollno=1707;
```

1 row updated.

```
SQL> select * from stdmain;
```

ROLLNO	NAME	STATE	DOB	BRANC	CITY
1701	Arvind	WB	15-JAN-99	CSE	Kolkata
1702	Jhon	MH	02-MAR-99	EEE	Mumbai
1703	Mohan	UP	15-JUL-91	ECE	Delhi
1704	Ravi	MP	12-MAY-94	CSE	Bhopal
1705	Karim	BR	10-MAR-91	ECE	Patna
1706	Sita	UP	08-DEC-90	EEE	Kanpur
1707	Pintu	BR	17-OCT-92	CSE	Chennai

7 rows selected.

```
SQL> alter table stdmain with check check constraint rollno;
```

```
alter table stdmain with check check constraint rollno
```

\*

ERROR at line 1:

ORA-01735: invalid ALTER TABLE option

```
SQL> select constraint_name,constraint_type,search_condition from user_constraints where
table_name='STDMAIN';
```

CONSTRAINT_NAME	C
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SEARCH_CONDITION
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SYS_C004059	C
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Dob>='01-Jan-1990' and Dob<='01-Jan-2000'

SYS_C004060	C
-------------	---

branch in('CSE','ECE','EEE')

SYS_C004061	P
-------------	---

```
SQL> create table smarks(
```

```
2 rollno number,
```

```
3 subjectname varchar2(5), check(subjectname in('OS','Java','Oracle','C++')),
```

4 marks number check (marks>=0 and marks <=100)

5 );

Table created.

SQL> alter table smarks add foreign key (rollno) references stdmain(rollno);

Table altered.

SQL> insert into smarks values(1701,'C++',75);

1 row created.

SQL> insert into smarks values(1701,'Oracle',84);

1 row created.

SQL> insert into smarks values(1701,'Java',95);

1 row created.

SQL> insert into smarks values(1701,'OS',62);

1 row created.

SQL> insert into smarks values(1702,'C++',46);

1 row created.

```
SQL> select * from smarks;
```

ROLLNO	SUBJECTNAME	MARKS
1701	C++	75
1701	Oracle	84
1701	Java	95
1701	OS	62
1702	C++	46

```
SQL> insert into smarks values(1702,'Oracle',70);
```

1 row created.

```
SQL> insert into smarks values(1702,'Java',55);
```

1 row created.

```
SQL> insert into smarks values(1702,'OS',56);
```

1 row created.

```
SQL> insert into smarks values(1703,'C++',82);
```

1 row created.

```
SQL> insert into smarks values(1703,'Oracle',84);
```

1 row created.

```
SQL> insert into smarks values(1703,'Java',74);
```

1 row created.

```
SQL> insert into smarks values(1703,'OS',92);
```

1 row created.

```
SQL> insert into smarks values(1704,'C++',43);
```

1 row created.

```
SQL> insert into smarks values(1704,'Oracle',49);
```

1 row created.

```
SQL> insert into smarks values(1704,'Java',68);
```

1 row created.

```
SQL> insert into smarks values(1704,'OS',35);
```

1 row created.

```
SQL> select s1.rollno , name ,subjectname,marks from stdmain s1 INNER JOIN smarks s2 on  
s1.rollno=s2.rollno;
```

ROLLNO	NAME	SUBJECTNAME	MARKS
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-----		
1701 Arvind	C++	75
1701 Arvind	Oracle	84
1701 Arvind	Java	95
1701 Arvind	OS	62
1702 Jhon	C++	46
1702 Jhon	Oracle	70
1702 Jhon	Java	55
1702 Jhon	OS	56
1703 Mohan	C++	82
1703 Mohan	Oracle	84
1703 Mohan	Java	74

ROLLNO	NAME	SUBJECTNAME	MARKS
-----			
1703 Mohan	OS		92
1704 Ravi	C++		43
1704 Ravi	Oracle		49
1704 Ravi	Java		68
1704 Ravi	OS		35

16 rows selected.

SQL>

SQL> select s1.rollno , name ,sum(marks) from stdmain s1,smarks s2 where s1.rollno=s2.rollno group by s1.rollno,name;

ROLLNO	NAME	SUM(MARKS)
-----		

1701 Arvind	316
1702 Jhon	227
1703 Mohan	332
1704 Ravi	195

SQL>

SQL> select rollno, dob, round((sysdate-dob)/365) || ' years ' || round(mod((sysdate-dob),12)) || ' months'  
age from stdmain;

ROLLNO DOB

-----

AGE

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1701 15-JAN-99

23 years 8 months

1702 02-MAR-99

23 years 10 months

1703 15-JUL-91

30 years 1 months

ROLLNO DOB

-----

AGE

-----

1704 12-MAY-94

27 years 1 months

1705 10-MAR-91

31 years 8 months

1706 08-DEC-90

31 years 4 months

ROLLNO DOB

-----

AGE

-----

1707 17-OCT-92

29 years 9 months

7 rows selected.

SQL>

SQL> spool off