ARYAN 21BRS1272

Assignment - 2

Q1

```
SQL> create table department_21BRS1272(
2 dept_no varchar(5) primary key,
3 dept_name varchar(20) NOT NULL,
4 location varchar(20)
5 );
Table created.
```

```
SQL> create table employee_21BRS1272(
2 emp_no varchar(6) PRIMARY KEY,
3 emp_name varchar(20) NOT NULL,
4 DOB date,
5 address varchar(30),
6 DOJ date,
7 mobile_no number(10),
8 dept_no references department_21BRS1272(dept_no),
9 salary number(9,2),
10 check(salary>50000)
11 );
Table created.
```

Q2

```
SQL> alter table employee_21BRS1272
2 add designation varchar(20);
Table altered.
```

```
SQL> alter table employee_21BRS1272
2 DROP COLUMN address;
Table altered.
```

```
SQL> insert into department_21BRS1272 values('d01','scope','delta');

1 row created.

SQL> insert into department_21BRS1272 values('d02','sense','beta');

1 row created.

SQL> insert into department_21BRS1272 values('d03','mech','alpha');

1 row created.

SQL> insert into department_21BRS1272 values('d04','civil','sigma');

1 row created.

SQL> insert into department_21BRS1272 values('d04','civil','sigma');

1 row created.

SQL> insert into department_21BRS1272 values('d05','ssl','gamma');

1 row created.
```

```
SQL> insert into employee_21BRS1272 values('e01','Ram','23/jan/2000','14/apr/2022',1234762387,'d01',90000,'Manager');

1 row created.

SQL> insert into employee_21BRS1272 values('e02','Rahul','04/feb/1998','24/may/2022',9834531287,'d02',60000,'assistant');

1 row created.

SQL> insert into employee_21BRS1272 values('e03','Aman','06/dec/1995','06/jun/2022',9434531287,'d03',70000,'assistant professor');

1 row created.

SQL> insert into employee_21BRS1272 values('e04','Raman','16/nov/1994','08/mar/2022',9999955555,'d04',70000,'assistant professor');

1 row created.

SQL> insert into employee_21BRS1272 values('e05','Jhon','16/jun/1997','08/jan/2022',9999322255,'d05',70000,'assistant professor');

1 row created.
```

A) While entering duplicate dept_no we are getting error because dept_no is primary key and it cannot have duplicate value

```
SQL> insert into department_21BRS1272 values('d05','scope','AB2');
insert into department_21BRS1272 values('d05','scope','AB2')
*
ERROR at line 1:
ORA-00001: unique constraint (SYSTEM.SYS_C008319) violated

SQL>
```

B) While entering duplicate emp_no we are getting error because emp_no is primary key and it cannot have duplicate value

```
SQL> insert into employee_21BRS1272 values('e01','Ram','01/jan/1998','24/may/2022',1234531287,'d02',60000,'assistant');
insert into employee_21BRS1272 values('e01','Ram','01/jan/1998','24/may/2022',1234531287,'d02',60000,'assistant')
*
ERROR at line 1:
ORA-00001: unique constraint (SYSTEM.SYS_C008325) violated
```

C) While entering NULL value in emp_name we are getting error because emp_name is a unique constraint (NOT NULL) where values cannot be Null.

```
SQL> insert into employee_21BRS1272 values('e07','','16/jun/1997','08/jan/2022',9999322255,'d05',70000,'assistant professor'); insert into employee_21BRS1272 values('e07','','16/jun/1997','08/jan/2022',9999322255,'d05',70000,'assistant professor')

ERROR at line 1:
ORA-01400: cannot insert NULL into ("SYSTEM"."EMPLOYEE_21BRS1272"."EMP_NAME")
```

D) The check attribute is violated as check should be greater than 50000 but we have entered less than 50000

```
SQL> insert into employee_21BR51272 values('e06','Arav','26/jun/1997','08/mar/2022',9994572255,'d05',25000,'assistant professo
insert into employee_21BR51272 values('e06','Arav','26/jun/1997','08/mar/2022',9994572255,'d05',25000,'assistant professor')
*
ORA-02290: check constraint (SYSTEM.SYS_C008324) violated
```

E) While entering new dept_no in table error comes up as the new value is not available in the parent table.

```
SQL> insert into employee_21BRS1272 values('e06','Arav','26/jun/1997','08/mar/2022',9994572255,'d09',125000,'assistant profess
insert into employee_21BRS1272 values('e06','Arav','26/jun/1997','08/mar/2022',9994572255,'d09',125000,'assistant professor')
*
ERROR at line 1:
ORA-02291: integrity constraint (SYSTEM.SYS_C008326) violated - parent key not
found
```

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SQL> select * from department_21BRS1272;						
DEPT_	DEPT_NAME	LOCATION				
d02 d03	sense mech civil	delta beta alpha sigma gamma				
SQL> select * from employee_21BRS1272;						
EMP_NO	EMP_NAME	DOB	DOJ	MOBILE_NO	DEPT_	SALARY
DESIGNATION						
e01 Manage		23-JAN-00	14-APR-22	124762387	d01	90000
e02 assist	Rahul ant	04-FEB-98	24-MAY-22	945762387	d02	60000
e03 assist	Aman cant professor	06-DEC-95	06-JUN-22	944562387	d03	70000
EMP_NO	EMP_NAME	DOB	DOJ	MOBILE_NO	DEPT_	SALARY
DESIGNATION						
e04 assist	Raman cant professor	16-NOV-94	08-MAR-22	9999955555	d04	70000
e05 assist	Jhon ant professor	16-JUN-97	08-JAN-22	9999322255	d05	70000

```
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```

Q6

Q7

```
SQL> select mobile_no from employee_21BRS1272 where emp_name='Jhon';

MOBILE_NO
-----
9999322255
```

Q8

```
SQL> delete from employee_21BRS1272 where mobile_no = 9999955555;

1 row deleted.

SQL>
```

Q9

```
SQL> update employee_21BRS1272
2 set salary=salary+0.1*salary;
4 rows updated.
```

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Q11

```
SQL> select emp_no,emp_name,designation,dept_no,salary from employee_21BRS1272 order by salary asc;
EMP_NO EMP_NAME
                                                 DEPT_
                            DESIGNATION
                                                            SALARY
e02
                            assistant
                                                             66000
e05
       Jhon
                            assistant professor
                                                 d05
                                                             77000
e03
                            assistant professor
                                                             77000
e01
                                                 d01
                                                            99000
       Ram
                            Manager
```

```
SQL> select emp_no,emp_name,designation,dept_no,salary from employee_21BRS1272 order by salary desc;
EMP_NO EMP_NAME
                            DESIGNATION
                                                  DEPT_
                                                            SALARY
e01
e05
       Ram
                                                  d01
                                                             99000
                            Manager
       Jhon
                                                  d05
                                                             77000
                            assistant professor
e03
       Aman
                            assistant professor
                                                  d03
                                                             77000
                                                  d02
e02
       Rahul
                                                             66000
                            assistant
SQL>
```