

DBMS Lab Exercise-1

Sandip Datta

21BCE1163

- i) Create table “Student” with the attributes RegNumber (Number), StudName (Character), Department Character),, ContactNumber (Number), Date of Birth (Date), Location Character), CGPA Number),
- ii) Display the structure of the table (Use Desc command)

SQL Command:

```
create table sandipdatta_21BCE1163 (regnumber number(6), studname VARCHAR(20), department VARCHAR(20), contactno number(10), DOB DATE, location VARCHAR(20), CGPA int);
```

```
desc sandipdatta_21BCE1163;
```

Table created.

TABLE SANDIPDATTA_21BCE1163

Column	Null?	Type
REGNUMBER	-	NUMBER(6,0)
STUDNAME	-	VARCHAR2(20)
DEPARTMENT	-	VARCHAR2(20)
CONTACTNO	-	NUMBER(10,0)
DOB	-	DATE
LOCATION	-	VARCHAR2(20)
CGPA	-	NUMBER

iii) A. Add new Column “Age” and insert values.

iii) B. Modify the CGPA as Decimal, 2 digits maximum with 2 digits to the right of the decimal

SQL Command:

```
alter table sandipdatta_21BCE1163 add age number(2);
```

```
desc sandipdatta_21BCE1163;
```

```
alter table sandipdatta_21BCE1163 modify CGPA number(19,2);
```

```
desc sandipdatta_21BCE1163;
```

7 rows selected.

Table altered.

TABLE SANDIPDATTA_21BCE1163

Column	Null?	Type
REGNUMBER	-	NUMBER(6,0)
STUDNAME	-	VARCHAR2(20)
DEPARTMENT	-	VARCHAR2(20)
CONTACTNO	-	NUMBER(10,0)
DOB	-	DATE
LOCATION	-	VARCHAR2(20)
CGPA	-	NUMBER
AGE	-	NUMBER(2,0)

8 rows selected.

Table altered.

TABLE SANDIPDATTA_21BCE1163

Column	Null?	Type
REGNUMBER	-	NUMBER(6,0)
STUDNAME	-	VARCHAR2(20)
DEPARTMENT	-	VARCHAR2(20)
CONTACTNO	-	NUMBER(10,0)
DOB	-	DATE
LOCATION	-	VARCHAR2(20)
CGPA	-	NUMBER(19,2)
AGE	-	NUMBER(2,0)

iv) Insert 7 values into the table.

SQL Command:

```
insert into sandipdatta_21BCE1163 values(211163,'Sandip','cse',7679236037,'12-jul-2003','Westbengal',8,19);
```

```
select*from sandipdatta_21BCE1163;
```

```
insert into sandipdatta_21BCE1163 values(211164,'Ram','SCSE',6779246037,'14-jul-2003','Odissa',8.19,19);
```

```
insert into sandipdatta_21BCE1163 values(211169,'Yadu','MECH',8959236037,'15-jun-2003','Hydrabad',7,19);
```

```
insert into sandipdatta_21BCE1163 values(211153,'Tota','SCSE',6979236037,'17-march-2003','UP',8,19);
```

```
insert into sandipdatta_21BCE1163 values(214163,'Rittik','SCSE',8979236937,'12-sep-2003','Chennai',9.23,19);
```

```
insert into sandipdatta_21BCE1163 values(241163,'Menon','SCSE',7479236837,'24-jan-2003','Jharkhand',7.56,19);
```

```
insert into sandipdatta_21BCE1163 values(215163,'Dominic','EEE',8779236937,'22-jul-2003','Chennai',8.23,19);
```

```
insert into sandipdatta_21BCE1163 values(219163,'Dorald','CSE',9978236037,'12-aug-2003','Chennai',7.89,19);
```

```
select*from sandipdatta_21BCE1163;
```

```
8 rows selected.
```

```
1 row(s) inserted.
```

REGNUMBER	STUDNAME	DEPARTMENT	CONTACTNO	DOB	LOCATION	CGPA	AGE
211163	Sandip	cse	7679236037	12-JUL-03	Westbengal	8	19

REGNUMBER	STUDNAME	DEPARTMENT	CONTACTNO	DOB	LOCATION	CGPA	AGE
211163	Sandip	cse	7679236037	12-JUL-03	Westbengal	8	19
211164	Ram	SCSE	6779246037	14-JUL-03	Odissa	8.19	19
211169	Yadu	MECH	8959236037	15-JUN-03	Hydrabad	7	19
211153	Tota	SCSE	6979236037	17-MAR-03	UP	8	19
214163	Rittik	SCSE	8979236937	12-SEP-03	Chennai	9.23	19
241163	Menon	SCSE	7479236837	24-JAN-03	Jharkhand	7.56	19
215163	Dominic	EEE	8779236937	22-JUL-03	Chennai	8.23	19
219163	Dorald	CSE	9978236037	12-AUG-03	Chennai	7.89	19

v) Rename the ContactNumber attribute as MobileNo.

vi) Display the table with all attributes.

SQL Command:

alter table sandipdatta_21BCE1163 rename column contactno to mobileneno;

desc sandipdatta_21BCE1163;

8 rows selected.

Table altered.

TABLE SANDIPDATTA_21BCE1163

Column	Null?	Type
REGNUMBER	-	NUMBER(6,0)
STUDNAME	-	VARCHAR2(20)
DEPARTMENT	-	VARCHAR2(20)
MOBILENO	-	NUMBER(10,0)
DOB	-	DATE
LOCATION	-	VARCHAR2(20)
CGPA	-	NUMBER(19,2)
AGE	-	NUMBER(2,0)

vii) Display the students who studies in 'SCSE'.

SQL Command:

select * from sandipdatta_21BCE1163 where department='SCSE';

REGNUMBER	STUDNAME	DEPARTMENT	MOBILENO	DOB	LOCATION	CGPA	AGE
211164	Ram	SCSE	6779246037	14-JUL-03	Odissa	8.19	19
211153	Tota	SCSE	6979236037	17-MAR-03	UP	8	19
214163	Rittik	SCSE	8979236937	12-SEP-03	Chennai	9.23	19
241163	Menon	SCSE	7479236837	24-JAN-03	Jharkhand	7.56	19

viii) Delete the records of student whose Location is "Chennai"

SQL Command:

select * from sandipdatta_21BCE1163 where location='Chennai';

delete from sandipdatta_21BCE1163 where location='Chennai';

```
select*from sandipdatta_21BCE1163;
```

people from Chennai whose records we will delete

REGNUMBER	STUDNAME	DEPARTMENT	MOBILENO	DOB	LOCATION	CGPA	AGE
214163	Rittik	SCSE	8979236937	12-SEP-03	Chennai	9.23	19
215163	Dominic	EEE	8779236937	22-JUL-03	Chennai	8.23	19
219163	Dorald	CSE	9978236037	12-AUG-03	Chennai	7.89	19

After deleting the table:

REGNUMBER	STUDNAME	DEPARTMENT	MOBILENO	DOB	LOCATION	CGPA	AGE
211163	Sandip	cse	7679236037	12-JUL-03	Westbengal	8	19
211164	Ram	SCSE	6779246037	14-JUL-03	Odissa	8.19	19
211169	Yadu	MECH	8959236037	15-JUN-03	Hydrabad	7	19
211153	Tota	SCSE	6979236037	17-MAR-03	UP	8	19
241163	Menon	SCSE	7479236837	24-JAN-03	Jharkhand	7.56	19

viii) Delete the records of student whose Location is “Chennai”

SQL Command:

```
alter table sandipdatta_21BCE1163 drop column location;
```

```
desc sandipdatta_21BCE1163;
```

5 rows selected.

Table altered.

TABLE SANDIPDATTA_21BCE1163

Column	Null?	Type
REGNUMBER	-	NUMBER(6,0)
STUDNAME	-	VARCHAR2(20)
DEPARTMENT	-	VARCHAR2(20)
MOBILENO	-	NUMBER(10,0)
DOB	-	DATE
CGPA	-	NUMBER(19,2)
AGE	-	NUMBER(2,0)

ix) Modify the table by removing Location attribute.

SQL Command:

```
alter table sandipdatta_21BCE1163 drop column location;
```

```
desc sandipdatta_21BCE1163;
```

5 rows selected.

Table altered.

TABLE SANDIPDATTA_21BCE1163

Column	Null?	Type
REGNUMBER	-	NUMBER(6,0)
STUDNAME	-	VARCHAR2(20)
DEPARTMENT	-	VARCHAR2(20)
MOBILENO	-	NUMBER(10,0)
DOB	-	DATE
CGPA	-	NUMBER(19,2)
AGE	-	NUMBER(2,0)

x) Truncate the student table.

xi) Drop the table Student.

SQL Command:

```
truncate table sandipdatta_21BCE1163;
```

```
select*from sandipdatta_21BCE1163;
```

```
drop table sandipdatta_21BCE1163;
```

```
7 rows selected.
```

```
Table truncated.
```

```
no data found
```

```
Table dropped.
```

Total Code:

```
create table sandipdatta_21BCE1163 (regnumber number(6), studname VARCHAR(20), department  
VARCHAR(20), contactno number(10), DOB DATE, location VARCHAR(20), CGPA int);
```

```
desc sandipdatta_21BCE1163;
```

```
alter table sandipdatta_21BCE1163 add age number(2);
```

```
desc sandipdatta_21BCE1163;
```

```
alter table sandipdatta_21BCE1163 modify CGPA number(19,2);
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```
insert into sandipdatta_21BCE1163 values(211163,'Sandip','cse',7679236037,'12-jul-  
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insert into sandipdatta_21BCE1163 values(215163,'Dominic','EEE',8779236937,'22-jul-2003','Chennai',8.23,19);
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```
insert into sandipdatta_21BCE1163 values(219163,'Dorald','CSE',9978236037,'12-aug-2003','Chennai',7.89,19);
```

```
select*from sandipdatta_21BCE1163;
```

```
alter table sandipdatta_21BCE1163 rename column contactno to mobileneno;
```

```
desc sandipdatta_21BCE1163;
```

```
select * from sandipdatta_21BCE1163 where department='SCSE';
```

```
select * from sandipdatta_21BCE1163 where location='Chennai';
```

```
delete from sandipdatta_21BCE1163 where location='Chennai';
```

```
select*from sandipdatta_21BCE1163;
```

```
alter table sandipdatta_21BCE1163 drop column location;
```

```
desc sandipdatta_21BCE1163;
```

```
truncate table sandipdatta_21BCE1163;
```

```
desc sandipdatta_21BCE1163;
```

```
drop table sandipdatta_21BCE1163;
```