

Assignment : 1

1. Display the data in existing default employees on emp on employee table.

SELECT * FROM employees;

2. Display the structure of the above table.

DESCRIBE employees;

3. Create a table "student" with following structure:

Roll	Name	Age	Couarse	Math	Physics	Computer	Birthday
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Details of attributes:

Roll	Number (5)
Name	VARCHAR(30)
Age	Number (5)
Couarse	VARCHAR (5)
Math	Number (6,2)
Physics	Number (6,2)
Computer	Number (6,2)
Birthday	Date

CREATE TABLE student (Roll INT(5), Name VARCHAR (30), Age INT (5), Couarse VARCHAR (5), Math DECIMAL (6,2), Physics DECIMAL (6,2), Computer DECIMAL (6,2), Birthday DATE);

DESC student;

C_Id	name	type	not null	default value	Primary key
0	Roll	INT (5)	0		0
1	Name	VARCHAR(30)	0		0
2	Age	INT(5)	0		0
3	Couarse	VARCHAR (5)	0		0
4	Math	DECIMAL (6,2)	0		0
5	Physics	DECIMAL (6,2)	0		0
6	Computer	DECIMAL (6,2)	0		0

4. Create table MSc from the student table with the same fields and same structure but without any data.

```
CREATE TABLE MSc (ROLL INT, Name VARCHAR(30), Age INT, Course
VARCHAR(5), Math DECIMAL(6,2), Physics DECIMAL(6,2), Computer
DECIMAL(6,2), Birthday DATE);
DESC MSc;
```

C-Id	name	type	not null	default value	Primary key
0	ROLL	INT	0		0
1	Name	VARCHAR(30)	0		0
2	Age	INT	0		0
3	Course	VARCHAR(5)	0		0
4	Math	DECIMAL(6,2)	0		0
5	Physics	DECIMAL(6,2)	0		0
6	Computer	DECIMAL(6,2)	0		0

5. Display the structure of MSc table.

```
DESC MSc;
```

C-Id	name	type	not null	default value	Primary key
0	ROLL	INT	0		0
1	Name	VARCHAR(30)	0		0
2	Age	INT	0		0
3	Course	VARCHAR(5)	0		0
4	Math	DECIMAL(6,2)	0		0
5	Physics	DECIMAL(6,2)	0		0
6	Computer	DECIMAL(6,2)	0		0

6. Create table 'MCA' from the student table with the same fields and same structure but without any data. Rename course with Department and Name with First Name.

```
CREATE TABLE MCA (ROLL INT, First Name VARCHAR(30), Age INT,
Department VARCHAR(5), Math DECIMAL(6,2), Physics DECIMAL(6,2),
Computer DECIMAL(6,2), Birthday DATE);
```

Display the structure of MCA Table.

DESC MCA;

C-Id	name	type	not null	default value	Primary key
0	Roll	INT	0		0
1	First Name	VARCHAR(30)	0		0
2	Age	INT(5)	0		0
3	Department	VARCHAR(30)	0		0
4	Math	DECIMAL(6,2)	0		0
5	Physics	DECIMAL(6,2)	0		0
6	Computer	DECIMAL(6,2)	0		0

Insert following records into the students table .

1. Rahul , 19 , BCA , 79.5 , 67 , 89 , 15-Jun-93 .
2. Kunal , 21 , BCA , 68 , 76 , 59.5 , 16-Aug-91 .
3. Aditi , 20 , MSc , 90 , 73 , 56 , 20-Sep-92 .
4. Sumit , 20 , MCA , 57.5 , 78 , 81 , 07-dec-91 .
5. Aniurban , 22 , MCA , 80 , 68 , 63 , 15-Sep-94 .
6. Kumkum , 21 , BCA , 78 , 54.5 , 60 , 08-feb-95 .
7. Suman , 21 , BCA , 91.5 , 32 , 61 , 10-may-94 .
8. Rohit , 22 , MSc , 85 , 76 , 92 , 19-apr-92 .

INSERT INTO student (roll, Name, age, course, math, physics, computer, birthday) VALUES

(1, 'Rahul', 19, 'BCA', 79.5, 67, 89, '1993-06-15'),
(2, 'Kunal', 21, 'BCA', 68, 76, 59.5, '1991-08-16'),
(3, 'Aditi', 20, 'MSc', 90, 73, 56, '1992-09-20'),
(4, 'Sumit', 20, 'MCA', 57.5, 78, 81, '1991-12-07'),
(5, 'Aniurban', 22, 'MCA', 80, 68, 63, '1994-09-15'),
(6, 'Kumkum', 21, 'BCA', 78, 54.5, 60, '1995-02-08'),
(7, 'Suman', 21, 'BCA', 91.5, 32, 61, '1994-03-10'),
(8, 'Rohit', 22, 'MSc', 85, 76, 92, '1992-04-19');

9.

Display all the student's detail from 'student' table .

SELECT * FROM student;

roll	Name	age	course	Math	Physics	Computer	birthday
1	Rahul	19	BCA	79.5	67	89	1993-06-15
2	Kunal	21	BCA	68	76	59.5	1991-08-16
3	Aditi	20	MSc	90	73	56	1992-09-20
4	Sumit	20	MCA	57.5	78	81	1991-12-07
5	Anirban	22	MCA	80	68	63	1994-09-15
6	Kumkum	21	BCA	72	54.5	60	1995-02-08
7	Suman	21	BCA	91.5	32	61	1992-04-19

10.

Find out the details of the students will roll no. 5 from student ^{table.}

SELECT * FROM student WHERE roll=5 ;

roll	Name	age	course	Math	Physics	Computer	birthday
5	Anirban	22	MCA	80	68	63	1994-09-15

11.

Show the roll , name , marks of all students subjects for all students from students Table .

SELECT roll , Name , math , physics , computer FROM student ;

roll	Name	Math	Physics	Computer
1	Rahul	79.5	67	89
2	Kunal	68	76	59.5
3	Aditi	90	73	56
4	Sumit	57.5	78	81
5	Anirban	80	68	63
6	Kumkum	72	54.5	60
7	Suman	91.5	32	61

12.

Display all the student details belonging to the BCA department

SELECT * FROM student WHERE course = 'BCA' .

Roll	Name	Age	Course	Math	Physics	Computer	Birthday
1	Rahul	19	BCA	79.5	67	89	1993-06-15
2	Kunal	21	BCA	68	76	59.5	1991-08-16
6	Kumkum	21	BCA	72	54.5	60	1995-02-08
7	Suman	21	BCA	91.5	32	61	1994-03-10

13.

Insert data in the 'MSc' table from 'student' table where course is MSc -

INSERT INTO MSc SELECT * FROM student WHERE course = 'MSc' ;

SELECT * FROM MSc ;

Roll	Name	Age	Course	Math	Physics	Computer	Birthday
3	Aditi	20	MSc	90	73	56	1992-09-20
8	Rohit	22	MSc	85	76	92	1992-04-19

14.

Insert data in 'MCA' table from 'student' table where course is MCA -

INSERT INTO MCA SELECT * FROM student WHERE course = 'MCA' ;

SELECT * FROM MCA ;

Roll	Name	Age	Course	Math	Physics	Computer	Birthday
4	Sumit	20	MCA	57.5	78	81	1991-12-07
5	Anirban	22	MCA	80	68	63	1994-09-15

15.

Display the structure of 'student' and 'MCA' table .

DESCRIBE student ;

Field	Type	Null	Key	Default
Roll	INT	YES		NULL
Name	VARCHAR(80)	YES		NULL
Age	INT	YES		NULL
course	VARCHAR(8)	YES		NULL
Math	DECIMAL(6,2)	YES		NULL
Physics	DECIMAL(6,2)	YES		NULL
Computer	DECIMAL(6,2)	YES		NULL
Birthday	DATE	YES		NULL

DESCRIBE MCA ;

Field	Type	NULL	KEY	Default
Roll	INT	YES		NULL
First Name	VARCHAR (30)	YES		NULL
Age	INT	YES		NULL
Department	VARCHAR (5)	YES		NULL
Math	DECIMAL (6,2)	YES		NULL
Physics	DECIMAL (6,2)	YES		NULL
Computer	DECIMAL (6,2)	YES		NULL
Birthday	DATE	YES		NULL

16. Display all the details of each student in 'student' table with course appearing first in the display column list.

SELECT

courses,

Roll,

Name,

Age,

Math,

physics,

Computer,

Birthday.

FROM student ;

course	roll	age	Math	Physics	Computer	Birthday
BCA	1	19	79.5	67	89	1993-06-15
BCA	2	21	68	76	59.5	1991-08-16
MSc	3	20	90	73	56	1992-09-20
MCA	4	20	57.5	78	81	1991-12-07
MCA	5	22	80	68	63	1994-09-15
BCA	6	21	72	54.5	60	1995-02-08
BCA	7	21	91.5	32	61	1994-03-10
MSc	8	22	85	76	92	1992-04-19

Update the Maths marks of the student with Roll no. 7 from 91 to 95 in the 'student' table.

UPDATE student

SET Maths = 95

WHERE Roll = 7;

SELECT * FROM student WHERE Roll = 7;

Roll	Name	Age	Course	Maths	Physics	Computer	Birthday
7	Suman	21	BCA	95	82	61	1994-03-10

Update the Name of the student with Roll no. 4 from sumit to sumitara in 'MCA' table.

UPDATE MCA

SET Name = "Sumitara"

WHERE Roll = 4;

SELECT * FROM MCA WHERE Roll = 4;

Roll	FirstName	Age	Department	Math	Physics	Computer	Birthday
4	Sumitara	20	MCA	57.5	78	81	1991-12-07

Delete the details of the student with Roll no. 2 from the 'student' table.

DELETE FROM student WHERE Roll = 2;

Delete the details of all students from the 'student' table.

DELETE FROM student;

Rishi 18/08/25