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Year : 2nd

Stream : CST

Section : 2B

Class Roll : 58

Enrollment No. :- 12019009022112

Paper Name : DBMS Lab

Paper Code : PCC-CS493

Date : 18/05/21

Time : 9:30 - 12:30 AM

Signature : Shubham Dutta

Answer

1.

```
CREATE DATABASE Stud;  
use Stud;
```

```
CREATE TABLE Student (  
    s-no int,  
    s-name varchar(255),  
    dept-no int,  
    s-dob varchar(255)  
);
```

- i) ALTER TABLE Student ADD s-yr int;
- ii) ALTER TABLE Student ADD s-roll int;

```
INSERT INTO Student (s-no, s-name  
VALUES (1, "Shubham", 1, "15/11/2000",  
2009, 20);
```

```
INSERT INTO Student VALUES (2, "Arnav", 2, "20/12/2000",  
2008, 21);
```

- iii) ALTER TABLE Student
ADD CONSTRAINT PK_Student PRIMARY KEY
(dept-no, s-roll, s-yr);

```
iv) UPDATE Student SET s-dob = "11/08/2001"  
WHERE s-no = 2;
```

s_no	s_name	dept_no	s_dob	s_yr	s_roll	grade_point
1	Shubham	1	15/11/2000	2009	20	NULL
2	Arya	2	11/12/2000	2010	21	NULL
3	Arnab	3	1/10/2000	2011	22	NULL
4	Swastika	4	12/09/2000	2012	23	NULL
5	Manish	5	01/11/2001	2013	24	NULL
6	Prasun	6	15/11/2002	2014	25	NULL
7	Soumavo	7	10/10/2002	2015	26	NULL
8	Amitrajit	8	15/11/2001	2016	27	NULL
9	Shubham	9	15/03/2002	2019	28	NULL
10	Shubham	10	15/09/2003	2007	30	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Student 5 

Apply

Output

```
2. CREATE TABLE Department (  
    dept-no int,  
    dept-name varchar(255),  
    dept-hod varchar(255)  
);
```

```
INSERT INTO Department  
VALUES (1, "CSE", "ABC");
```

```
INSERT INTO Department  
VALUES (2, "ECE", "SKG");
```

```
INSERT INTO Department  
VALUES (3, "CST", "PE");
```

```
i) ALTER TABLE Department  
ADD dept-formation-date date;
```

```
ii) ALTER TABLE Department  
RENAME COLUMN "dept-hod" TO "hod-name";
```

```
iii) ALTER TABLE Department  
ADD PRIMARY KEY (dept-no)
```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	dept_no	dept_name	hod_name	dept_formation_date
	1	CSE	SKG	2009-12-11
	2	CST	SLC	2010-11-21
	3	ECE	PE	2010-12-21
	4	EEE	SMK	2013-11-21
	NULL	NULL	NULL	NULL

Result Grid

Form Editor

Field Types

Query Stats

4i) `SELECT SYSDATE();`

- Get System Date

ii) `SELECT MOD(18,9);`

- Print Remainder of 18 ÷ 9.

Result Grid



Filter Rows:

Export:






Wrap Cell Content:



MOD(18, 4)

2

Result Grid			Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
	SYSDATE()				
▶	2021-05-18 12:11:54				

5)

DECLARE

m PLS-INTEGER = 0;

n PLS-INTEGER = 0;

k PLS-INTEGER;

BEGIN

<>

LOOP

n := n + 1;

k = 0

DBMS_OUTPUT.PUT_LINE('The values of
inner loop are')

<>

k := k + 1;

m := m + n * k;

EXIT inner-loop WHEN (k > 3);

DBMS_OUTPUT.PUT_LINE('m = ' || TO_CHAR(m)
|| 'k = ' || TO_CHAR(k) || 'm = ' ||
TO_CHAR(m));

EXIT outer-loop WHEN ((n * k) > 6);

END Loop inner-loop;

END Loop outer-loop;

DBMS_OUTPUT.PUT_LINE

('The total sum after completing the
process' || TO_CHAR(m));

END

OUTPUT

The values of inner loop are

$$n=1 \quad k=1 \quad m=3$$

$$n=1 \quad k=2 \quad m=3$$

$$n=1 \quad k=3 \quad m=6$$

The values of inner loop are

$$n=2 \quad k=1 \quad m=12$$

$$n=2 \quad k=2 \quad m=16$$

$$n=2 \quad k=3 \quad m=22$$

The values of inner loop are:

$$n=3 \quad k=1 \quad m=33$$

$$n=3 \quad k=2 \quad m=39$$

$$n=3 \quad k=3 \quad m=48$$

The Total sum after completing the process is 48