Database Design and Applications

Assignment

Submitted By:

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1. Create a table student with given data:

```
CREATE TABLE Student
(
IDNO  varchar2(11) primary key,
Name varchar2(64) not null,
Room Integer,
Hostel char(2) ,
CGPA Number(2,2) Check(CGPA<=10)
);
insert  into Student values('2000A7PS177','Raoul',222,'AK',8.8);
insert  into Student values('2001A7PS098','Kapil',143,'RM',7.9);
insert  into Student values('2001A7PS588','Sriram',175,'RP',10.0);
insert  into Student values('2000A7PS721','Nikhil',112,'RM',9.2);
insert  into Student values('2001A3PS588','Mouli',121,'BD',7.5);
commit;
```

1. Select the list of students whose CGPA > 8.5.
   Ans: Select * from Student where CGPA >8.5;

2. Print the normalized CGPA with respect to the highest CGPA in batch 2016.
   Ans: Select MAX(CGPA) from Student;

3. Select the average CGPA in batch 2000.
   Ans: SELECT AVG(CGPA) FROM Student WHERE IDNO LIKE '2000%';

4. Print BITS email ids of all students.
   Ans: SELECT CONCAT(SUBSTRING(IDNO, 1, 12), '@wilp.bits-pilani.ac.in') AS mailId FROM Student;

5. Make a copy of the table using CREATE TABLE student_backup AS SELECT * from student
   Ans: Create table student_backup As select * from Student;

6. Delete all rows from table student (Try using TRUNCATE).
   Ans: TRUNCATE TABLE Student;