

Assignment-06

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Subject : DBMS

Subject Code : BCSC 0861

1-Create a new column DoB in Student table.

A screenshot of a SQL query editor interface. The top part of the editor has a decorative header with a pattern of yellow, black, and grey. Below the header, there is a light blue background for the query text. The query text is: `1 alter table student add dob DATE;`. The number '1' is in a small grey box on the left, and the rest of the text is in a light blue box. Below the query text, there is a grey bar with a small upward-pointing arrow in the center.

Table altered.

2-Insert DoB for each Student in corresponding table using above instance of Student table.

```

1  update student set dob='26-JUN-1996' where sid=123;
2  update student set dob='07-APR-1995' where sid=234;
3  update student set dob='04-FEB-1995' where sid=345;
4  update student set dob='24-JUL-1997' where sid=456;
5  update student set dob='21-DEC-1996' where sid=567;
6  update student set dob='27-AUG-1996' where sid=678;
7  update student set dob='08-OCT-1996' where sid=789;
8  update student set dob='27-MAR-1997' where sid=987;
9  update student set dob='07-MAR-1996' where sid=876;
10 update student set dob='08-AUG-1998' where sid=765;
11 update student set dob='26-MAY-1996' where sid=654;
12 update student set dob='17-AUG-1998' where sid=543;

```

1 row(s) updated.

1 row(s) updated.

1 row(s) updated.

1 row(s) updated.

1 row(s) updated.

1 row(s) updated.

1 row(s) updated.

1 row(s) updated.

3-Find average of GPA round off to 2 decimal places.

```

1  select round(avg(GPA),2) from student;

```

ROUND(AVG(GPA),2)

3.57

4-Find year of DoB of Student having less than 1000.

```
1 select dob from student where sizehs<1000;
```

DOB
04-FEB-95
27-AUG-96
08-OCT-96
27-MAR-97
07-MAR-96

5-Compute Age of each student. (Hint: take difference between year of sysdate and Student's DoB).

```
1 Select ((extract(year from sysdate))-(extract(year from dob))) as age from student;
```

AGE
28
29
29
27
28
28
28
27
28
26
28
26

6-Display name of all Students in uppercase and name of college they applied in lower case.

```
1 select upper(sname),lower(cname) from student,apply where student.sid=apply.sid;
```

UPPER(SNAME)	LOWER(CNAME)
AMY	berkeley
AMY	stanford
AMY	cornell
AMY	stanford
BOB	berkeley
CRAIG	cornell
CRAIG	cornell
CRAIG	cornell
CRAIG	mit
CRAIG	mit
FAY	stanford

7-Find fourth alphabet of each student. (Hint: use substring).

```
1 select substr(sname,4,1) from student;
```

SUBSTR(SNAME,4,1)
-
-
i
i
a
-
y
e
n
-
-
i

8-Find sID and sName of student whose sName has string length greater than 3.

```
1 select sid,sname from student where length(sname)>3;
```

SID	SNAME
345	Craig
456	Doris
567	Edward
789	Gary
987	Helen
876	Irene
543	Craig

9-Find floor, ceiling and truncate (to one decimal place) value of average GPA.

```
1 v Select floor(round(sum(gpa)/count(gpa))) as floor,ceil(round(sum(gpa)/count(gpa))) as  
2 ceil,trunc(round(sum(gpa)/count(gpa))) as truncate from student ;
```

FLOOR	CEIL	TRUNCATE
4	4	4

10-Display details of all students whose sID is even.

```
1 select * from student where mod(sid,2)=0;
```

SID	SNAME	GPA	SIZEHS	DOB
234	Bob	3.6	1500	07-APR-95
456	Doris	3.9	1000	24-JUL-97
678	Fay	3.8	200	27-AUG-96
876	Irene	3.9	400	07-MAR-96
654	Amy	3.9	1000	26-MAY-96

11-Compute Square Root of 900 and 247.

```
1 select sqrt(900),sqrt(24) from dual ;
```

SQRT(900)	SQRT(24)
30	4.89897948556635619639456814941178278393

12-Consider the string “Peter Piper picked a peck of pickled peppers. A peck of pickled peppers Peter Piper picked. If Peter Piper picked a peck of pickled peppers, Where the peck of pickled peppers Peter Piper picked?” Find 6th occurrence of string ‘pick’. (Hint: use INSTR).

```
1 v select instr( 'Peter Piper picked a peck of pickled peppers. A peck of pickled peppers Peter  
2 Piper picked. If Peter Piper picked a peck of pickled peppers, Where the peck of pickled  
3 peppers Peter Piper picked?', 'pick', 1, 6) as sixth from dual;
```

SIXTH

126

13-Consider String ‘Satya Nadella’ replace this using the key (Hint: use translate).

```
1 select translate(Lower('Satya Nadella'), 'adeInsty', '12345678') AS r_string from dual;
```

R_STRING

61781 5123441

14-Display sid, sname and DoB in this format 'February 26, 2014'.

```
1 select sid,sname,TO_CHAR(dob, 'MonthDD,YYYY') as DOB from student;
```

SID	SNAME	DOB	
123	Amy	June	26,1996
234	Bob	April	07,1995
345	Craig	February	04,1995
456	Doris	July	24,1997
567	Edward	December	21,1996
678	Fay	August	27,1996
789	Gary	October	08,1996
987	Helen	March	27,1997
876	Irene	March	07,1996
765	Jay	August	08,1998
654	Amy	May	26,1996
543	Craig	August	17,1998

15-Convert the text '26/02/2014' to date.

```
1 select TO_DATE('26/02/2014', 'DD/MM/YYYY') as updated_date from dual;
```

UPDATED_DATE
26-FEB-14

16-Compute on which date is next Saturday and last day of this month?

```
1 v select NEXT_DAY(TRUNC(SYSDATE) + 7, 'SATURDAY') as next_saturday, LAST_DAY(TRUNC(SYSDATE))  
2 as last_day_of_month from dual;
```

NEXT_SATURDAY	LAST_DAY_OF_MONTH
04-MAY-24	30-APR-24