DBMS WEEK-10

Consider the schema for College Database: STUDENT(USN, SName, Address, Phone, Gender) SEMSEC(SSID, Sem, Sec) CLASS(USN, SSID) SUBJECT(Subcode, Title, Sem, Credits) IAMARKS(USN, Subcode, SSID, Test1, Test2, Test3, FinalIA) Write SQL queries to:

1. List all the student details studying in fourth semester 'C'section.

2. Compute the total number of male and female students in each semester and in each section.

3. Create a view of Test1 marks of student USN '1BI15CS101' in all subjects.

4. Calculate the FinalIA (average of best two test marks) and update the corresponding table for all students.

5. Categorize students based on the following criterion: If FinalIA = 17 to 20 then CAT = 'Outstanding' If FinalIA = 12 to 16 then CAT = 'Average' If FinalIA< 12 then CAT = 'Weak' Give these details only for 8th semester A, B, and C section students.

OUTPUT:

1. List all the student details studying in fourth semester 'C'section.

1. List all the student details studying in fourth semester ‘C’section.

Query 1 | Insurance_DB | ORDERS_DB | bank_db | movie_db | supplier | stud_fac | college_db*

Limit to 1000 rows

```
SELECT*FROM SUBJECT;
/*1. List all the student details studying in fourth semester ‘C’section.*/
SELECT STUDENT.*,SEMSEC.SEM,SEMSEC.SEC FROM STUDENT,SEMSEC,CLASS WHERE STUDENT.USN=CLASS.USN AND
/*2. Compute the total number of male and female students in each semester and in each section. *
SELECT SEMSEC.SEM,SEMSEC.SEC,STUDENT.gender,COUNT(GENDER) FROM STUDENT,CLASS,SEMSEC WHERE STUDENT
/*3. Create a view of Test1 marks of student USN ‘1BI15CS101’ in all subjects. */
DROP VIEW TEST1;
CREATE VIEW TEST1 AS SELECT TEST1,SUBJECT.SUBCODE FROM IAMARKS,SUBJECT WHERE IAMARKS.SUBCODE=SUBJ
SELECT*FROM TEST1;

/*4. Calculate the FinalIA (average of best two test marks) and update the corresponding table fo
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

USN	SNAME	ADDRESS	PHONE	GENDER	SEM	SEC
1RN15CS091	SANTOSH	MANGALURU	8812332201	M	4	C

2. Compute the total number of male and female students in each semester and in each section.

```
/*2. Compute the total number of male and female students in each semester and in each section. */
SELECT SEMSEC.SEM,SEMSEC.SEC,STUDENT.gender,COUNT(GENDER) FROM STUDENT,CLASS,SEMSEC WHERE STUDENT.
/*3. Create a view of Test1 marks of student USN '1BI15CS101' in all subjects. */
DROP VIEW TEST1;
CREATE VIEW TEST1 AS SELECT TEST1,SUBJECT.SUBCODE FROM IAMARKS,SUBJECT WHERE IAMARKS.SUBCODE=SUBJE
SELECT*FROM TEST1;

/*4. Calculate the FinalIA (average of best two test marks) and update the corresponding table for
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

SEM	SEC	gender	COUNT(GENDER)
3	A	M	1
3	B	F	1
3	C	M	1
4	A	F	1
4	A	M	1

3. Create a view of Test1 marks of student USN ‘1BI15CS101’ in all subjects.

```
/*3. Create a view of Test1 marks of student USN ‘1BI15CS101’ in all subjects. */
DROP VIEW TEST1;
CREATE VIEW TEST1 AS SELECT TEST1,SUBJECT.SUBCODE FROM IAMARKS,SUBJECT WHERE IAMARKS.SUBCODE=SUBJI
SELECT*FROM TEST1;

/*4. Calculate the FinalIA (average of best two test marks) and update the corresponding table for

UPDATE IAMARKS
SET FINALIA = (TEST1 + TEST2 + TEST3) / 3;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

TEST1	SUBCODE
15	10CS81
12	10CS82
19	10CS83
20	10CS84
15	10CS85

4. Calculate the FinalIA (average of best two test marks) and update the corresponding table for all students.

Query 1 | Insurance_DB | ORDERS_DB | bank_db | movie_db | supplier | stud_fac | college_db

Limit to 1000 rows

```
DROP VIEW TEST1;
CREATE VIEW TEST1 AS SELECT TEST1,SUBJECT.SUBCODE FROM IAMARKS,SUBJECT WHERE IAMARKS.SUBCODE=S
SELECT*FROM TEST1;

/*4. Calculate the FinalIA (average of best two test marks) and update the corresponding table

UPDATE IAMARKS
SET FINALIA = (TEST1 + TEST2 + TEST3) / 3;
SELECT*FROM IAMARKS;

/*5. Categorize students based on the following criterion:
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

USN	SUBCODE	SSID	TEST1	TEST2	TEST3	FINALIA
1RN13CS091	10CS81	CSE8C	15	16	18	16
1RN13CS091	10CS82	CSE8C	12	19	14	15
1RN13CS091	10CS83	CSE8C	19	15	20	18
1RN13CS091	10CS84	CSE8C	20	16	19	18
1RN13CS091	10CS85	CSE8C	15	15	12	14

5. Categorize students based on the following criterion: If FinalIA = 17 to 20 then CAT = 'Outstanding' If FinalIA = 12 to 16 then CAT = 'Average' If FinalIA< 12 then CAT = 'Weak' Give these details only for 8th semester A, B, and C section students.

```
/*5. Categorize students based on the following criterion:
If FinalIA = 17 to 20 then CAT = 'Outstanding'
If FinalIA = 12 to 16 then CAT = 'Average'
If FinalIA< 12 then CAT = 'Weak'
Give these details only for 8th semester A, B, and C section students.*/

SELECT S.*,
CASE
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

USN	SNAME	ADDRESS	PHONE	GENDER	CAT
1RN13CS091	TEESHA	BENGALURU	7712312312	F	Average
1RN13CS091	TEESHA	BENGALURU	7712312312	F	Average
1RN13CS091	TEESHA	BENGALURU	7712312312	F	Outstanding
1RN13CS091	TEESHA	BENGALURU	7712312312	F	Outstanding
1RN13CS091	TEESHA	BENGALURU	7712312312	F	Average

*******WEEK 10 ENDS******