personal

| AdmissionNo | Name | Gender | DOB | City | Fee |
|---|---|---|---|---|---|
| 2344 | Karan | M | 2008-12-23 | Chennai | 80000 |
| 1992 | Maanshi | F | 2009-03-18 | Kolkatta | 75000 |
| 3111 | Suhani | F | 2010-10-04 | Chennai | 78000 |
| 2112 | Arun | M | 2007-04-17 | Bengaluru | 85000 |
| 4511 | Kavitha | F | 2009-08-31 | Ahmedabad | 92000 |
| 3311 | Suresh | M | 2010-11-29 | Bengaluru | 65000 |
| 9022 | Manav | M | null | Kolkatta | 48000 |

Marks

| Roll | Name | Sub1 | Sub2 | AdmissionNo |
|---|---|---|---|---|
| 1001 | Karan | 90 | 75 | 2344 |
| 1002 | Suhani | 88 | 62 | 3111 |
| 1003 | Arun | 82 | 68 | 2112 |
| 1004 | Suresh | 95 | 88 | 3311 |

Write SQL commands for:

1. Adding new record to the personal tables with values Admission number = 1221, Name = Rahul, Gender = M, dob = 2008-07-22 and city = chennai

ANS: insert into personal values (1221,'Rahul','M','2008-07-22','chennai', null);                              #

**(or)**

insert into personal(AdmissionNo,Name,Gender,dob,city)values(1221,'Rahul','M','2008-07-22','chennai');

2. To change the Subject 1 mark of Karan to 92.

ANS: UPDATE MARKS SET SUB1 = 92 WHERE NAME='Karan';

3. To add 5 marks to Subject 2 for all the students.

ANS:UPDATE MARKS SET SUB2 = SUB2+5;

4. To increment the fees of all students by 6%

ANS: UPDATE PERSONAL SET FEE = FEE+ FEE * 6/100;                              #

5. To decrement the fees by 2% for female students coming from Kolkatta

ANS: UPDATE PERSONAL SET FEE = FEE-FEE*2/100 WHERE GENDER='F' AND CITY ='KOLKATTA';
                                                                                   #

6. To remove the record of Manav from the personal table.

ANS: DELETE FROM PERSONAL WHERE NAME = 'MANAV';

7. To add a new column named Total Marks with int data type to the marks table.

ANS: ALTER TABLE MARKS ADD TOTAL_MARKS INT;

8. To remove the Sub2 column from the Marks table.

ANS: ALTER TABLE MARKS DROP SUB2;

9. To set roll as primary key to marks table.

ANS: ALTER TABLE MARKS ADD PRIMARY KEY(ROLL);

10. To remove the primary key constraint from the marks table.

ANS: ALTER TABLE MARKS DROP PRIMARY KEY;

11. To delete all the records from the marks table.

ANS: DELETE  FROM PERSONAL;

12. To delete the marks table completely.

ANS: DROP TABLE MARKS;

Write the SQL queries for the following
1. To display the Name and Gender from personal
ANS: SELECT NAME, GENDER FROM PERSONAL;

2. To display the AdmissionNo, Name and DOB of students from city Kolkatta and Chennai
ANS: SELECT Admissionno, name, dob from personal where city = 'kolkatta' or city = 'chennai';
            **(or)**
ANS: SELECT Admissionno, name, dob from personal where city in ('kolkatta','chennai');

3. To display the name and gender of students born in the year 2008 and 2009.
ANS: SELECT NAME, GENDER FROM PERSONAL WHERE DOB between '2008-01-01' and '2009-12-31';

4. To display the roll, name and sub1 marks of students whose sub1 mark is 90 or above.
ANS: SELECT ROLL, NAME, SUB1 FROM MARKS WHERE SUB1 >= 90;           #

5. To display the details of Male students from Bengaluru city.
ANS: SELECT * FROM PERSONAL WHERE GENDER = 'M' AND CITY ='BENGALURU';

6. To display the names of the students whose name begin with letter S from personal table.
ANS: SELECT NAME FROM PERSONAL WHERE NAME LIKE 'S%';

7. To display the roll, name, totalMark of students from marks table where totalMark is Sub1 + Sub2
ANS: SELECT ROLL, NAME, SUB1+SUB2 as "TOTAL_MARKS" FROM MARKS;       #

8. To display name and city in the ascending order of name.
ANS: SELECT NAME, CITY FROM PERSONAL ORDER BY NAME;

9. To display the record of student whose date of birth is not known
ANS: SELECT * FROM PERSONAL WHERE DOB IS NULL ;

10. To display the max and min date of birth.
ANS: SELECT MAX(DOB),MIN(DOB) FROM PERSONAL;

11. To display the total number of students available in the personal table.
ANS: SELECT COUNT(*) FROM PERSONAL;

12. To display the total of sub1 marks from marks table.
ANS: SELECT SUM(SUB1) FROM MARKS;

13. To display the average of sub1 marks.
ANS: SELECT AVG(SUB1) FROM MARKS;

14. To display the number of male and female students.
ANS: SELECT GENDER, COUNT(GENDER) FROM PERSONAL GROUP BY GENDER;

15. To display the number of students from each city.
ANS: SELECT CITY, COUNT(CITY) FROM PERSONAL GROUP BY CITY;

16. To display city names without repetition.
ANS: SELECT DISTINCT CITY  FROM PERSONAL;

17. To count number of distinct cities.
ANS: SELECT COUNT(DISTINCT CITY) FROM PERSONAL;

18. To display admission number, name, gender and sub1 marks.

ANS: SELECT PERSONAL.ADMISSIONNO, PERSONAL.NAME , GENDER , SUB1
    FROM PERSONAL, MARKS
    WHERE PERSONAL.ADMISSIONNO= MARKS.ADMISSIONNO;               #

19. To display roll number, name, gender and sub2 marks of female students.

ANS: SELECT ROLL, PERSONAL.NAME, GENDER, SUB2
    FROM PERSONAL , MARKS
    WHERE PERSONAL.ADMISSIONNO =MARKS.ADMISSSIONNO AND GENDER = 'F';    #

20. To display gender wise max marks of sub1 and min marks of sub2.

ANS: SELECT GENDER, MAX(SUB1),MIN(SUB2)
    FROM PERSONAL ,MARKS
    WHERE PERSONAL.ADMISSIONNO = MARKS.ADMISSSIONNO GROUP BY GENDER;

21. To display number of students from each city with more than 1 student from that city.

ANS: SELECT CITY, COUNT(CITY)
    FROM PERSONAL
    GROUP BY CITY HAVING COUNT(CITY)>1;

22.22.