1. CREATE, ALTER, DROP, TRUNCATE

Create a Table as Workers with the fields S\_No, Name, Designation, Branch, salary, Date of Joining.

Alter the Table by adding a column city.

Drop the table.

Truncate the table

Rename the database with other name

2. Create a two Table Employee and workers with fields S\_No, name, Designation, Branch, gender,salary, mobile no, city. Workers with the same fields .

a). Alter the table employee with following structure.

|  |  |  |
| --- | --- | --- |
| no | Column Name | Constraints |
| 1 | Sl.no | PRIMARY KEY |

b). Alter the table name workers with following structure.

|  |  |  |
| --- | --- | --- |
| # | Column Name | Constraints |
| 1 | Sl.no | PRIMARY KEY |
| 2 | Gender | CHECK ‘M’ or ‘F’ |

c).Alter the table name workers with following structure.

|  |  |  |
| --- | --- | --- |
| # | Column Name | Constraints |
| 1 | S1No | UNIQUE KEY |

d).After the employee & workers tables are successfully created, test if you can add a constraint FOREIGN KEY to the sl.no of this table.

3).a).Create a table STUDENT with under mentioned structure by using SQL Statement:

|  |  |  |
| --- | --- | --- |
| StdID | Number | Primary Key |
| StdName | Character (30) | NOT NULL |
| Sex | Character(6) | Male or Female |
| Percentage | Number | |
| SClass | Number | |
| Sec | Character | |
| Stream | Character(10) | Science or Commerce |
| DOB | Date | Date of Birth |

b). Insert 6 records into STUDENT table.

c). To display all the records form STUDENT table.

d). To display only name and date of birth from the table STUDENT.

e). To add a column (FIELD) in the STUDENT table, for example TeacherID as VARCHAR (20);

f). To display student name, stream and percentage where percentage of student is more than 80.

4. Create a t Table student with fields S\_No, register no. name, date of birth, Branch, course, course code, gender, instructor, DoJ.

## Questions:

**Using WHERE:**

1. The student counselor wanted to display the registration number, student name and date of birth for all the students.
2. The controller of examinations wanted to list all the female students
3. List the Students who registered for the “C001” course.
4. Display all faculty details joined before “November 2014”
5. Display all the courses not allotted to hall ‘H001’

## Using LIKE:

1. List the students whose name ends with the substring “sh”
2. Display all students whose name contains the substring “sh”
3. Find all the students who are located in cities having “Sal” as substring
4. Display the students whose names do not contain six letters.
5. Find all the students whose names contains “am”.

5. Create table student based on the questions given below and execute the queries

## Questions:

**IN & BETWEEN**

1. List the type of the courses “Statistics” and “Programming”
2. The instructor wants to know the CourseNos whose scores are in the range 50 to 80

## AGGREGATE

1. Find the average mark of “C002”.
2. List the maximum, minimum mark for “C002”
3. List the maximum, minimum, average mark for each course
4. List the name of the courses and average mark of each course.
5. Calculate the sum of all the scores.
6. How many students are registered for each course? Display the course description and the number of students registered in each course.
7. How many courses did each student register for?

6. Create table student based on the questions given below and execute the queries

Questions:

**GROUP BY - HAVING**

1. How many students are registered for each course? Display the course description and the number of students registered in each course.
2. How many courses did each student register for?

## ORDER BY

1. Retrieve Name, Gender, Mobile No of all the students in ascending order of Reg No.
2. List the faculty members in the order of older faculty first.

7.i).Create a student table with fields name, score, assessment and answer the following query.

1. Which of the student’s score is greater than the average score?
2. Which of the students’ have written more than one assessment test?
3. List the course and score of assessments that have the value more than the average score each Course

ii).Create a faculty table with fields name, DOB, gender and DOJ. Select the faculty who joined recently and when?

8.Create two tables based on the questions and perform the following sql queries JOIN using EquiJoin, InnerJoin, OuterJoin.

1. List the departments where the faculty members are working.
2. Find the student who has no score in any of the courses. List student name and course number.
3. The office clerk needs the names of the courses taken by the faculty belonging to ‘ECE department’ whose name is ‘Kamal’

9.i)Create a view with name ‘v1’ using employees table which holds the value of employee\_id and salary of employee.Do the insert and delete records from v1 table.

ii)Create index1 for ‘salary’ attribute from employees1 relation and list the first name of the employees whose salary is above 145000 and explain the working principle of indexing and then drop the index1.

iii)Create index1 for ‘employee\_id’ attribute and display the first name of an employee whose employee id is 10 and explain the working principle of index1.

10.Create Auto Increment sequence on the given relation

## Questions:

1. Populate register number using auto increment in DBMS\_Stud table.
2. Manually populate register number
3. Drop the auto increment.