Assignment

Sept23/ DBT/ 007

Database Technologies

Diploma in Advance Computing

September 2023

**DML commands: Select data with WHERE, GROUP BY, HAVING, ORDER BY and LIMIT clause.**

USE ***student\_phone, student\_address, faculty\_phone, faculty\_address, batch\_students, course\_batches, student\_qualifications, faculty\_qualifications, course\_modules, modules, faculty, student, course, student\_cards, and student\_order relation*** to solve the following queries.

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| 1. List all student. |
| **select \* from student;** |
|  |
| 1. List namefirst, namelast of all student. |
| **select namefirst, namelast from student;** |
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| 1. Display student information of the student whose student *ID* is 10. |
| **select \* from student where ID=10;** |
|  |
| 1. List of various faculties available from faculty table. |
| select namefirst from faculty; |
|  |
| 1. List all student having ‘A’ as second letter in their namefirst. |
| **select namefirst from student where substring(namefirst,2,1)='a';** |
|  |
| 1. List all student having letter ‘A’ in their namefirst. |
| **select namefirst from student where substring(namefirst,1,1)='a';** |
|  |
| 1. Display the details of the student whose DoB is '1986-12-14'. |
| select \* from student where dob='1986-12-14'; |
|  |
| 1. List all student having ‘R’ as first letter in their namefirst. |
| **select \* from student where substring(namefirst,1,1)='r';** |
|  |
| 1. Display the *namefirst, lastName* from student relation with Customized column headings. |
| select namefirst as NAME, namelast as SURNAME from student; |
|  |
| 1. Display all students in ascending order of their DOB. |
| select \* from student order by dob; |
|  |
| 1. Display two records of student whose name starts with the letter ‘S’. |
| select \* from student where substring(namefirst,1,1)='s' limit 2; |
|  |
| 1. Display the student detail whose DOB is ‘1986-12-14’. |
| select \* from student where dob='1986-12-14'; |
|  |
| 1. Display all modules whose module duration is 1 (use modules table). |
| select \* from modules where duration=1; |
|  |
| 1. Display all batches whose sitting capacity is 80 students (use course\_batches table). |
| select \* from course\_batches where capacity=80; |
|  |
| 1. Display all student qualification who have done’ BE’ and secured marks more than 70. (use student\_qualifications table). |
| select\* from student\_qualifications where name='be' and marks>=70; |
|  |
| 1. Display all student qualification who have done’ BE’ and graduated in the year 2017. (use student\_qualifications table). |
| select\* from student\_qualifications where name='be' and year=2017; |
|  |
| 1. Display all student qualification who have done’ BE’ and graduated in the year 2017 and scored marks more than 80. (use student\_qualifications table). |
| select\* from student\_qualifications where name='be' and year=2017 and marks>=80; |
|  |
| 1. Display faculty qualification who have done ‘BE’ from ‘Harvard University’(use faculty\_qualifications table) |
| select \* from faculty\_qualifications where name='be' and university='harvard university'; |
|  |
| 1. Display all courses whose course duration is 6 months.(use course table) |
| select \* from course where duration=6; |
|  |
| 1. Display module details whose module duration is between 1 and 2, arrange the data in ascending order of module duration. (use module table) |
| select \* from course where duration=1 or duration=2 order by duration; |
|  |
| 1. Display all student with their voting rights, if the student is below 1980 then print the message “\*The student can vote” else print “The student cannot vote”. |
|  |
|  |
| 1. Display all distinct universities from student\_qualifications table. |
| select distinct university from student\_qualifications; |
|  |
| 1. Display the second highest marks scored by any student in ‘BE’. |
| select distinct marks from student\_qualifications where name='be' order by marks desc limit 1 offset 1; |
|  |
| 1. Display the second lowest marks scored by any student in ‘BE’. |
| select marks from student\_qualifications where name='be' order by marks limit 1 offset 1; |
|  |
| 1. Display last 7 student. |
| select \* from student order by ID desc limit 7; |
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