

Assignment

Aug24/ DBT/ 007
Database Technologies
Diploma in Advance Computing
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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.

1. List all student.
select * from student;
2. List namefirst,namelast of all student.
select namefirst,namelast from student;
3. Display student information of the student whose student ID is 10.
select id,namefirst,namelast,DOB,emailid from student where id=1;
4. List of various faculties available from faculty table.
select * from faculty;
5. List all student having 'A' as second letter in their namefirst.
SELECT * FROM students WHERE SUBSTRING(first_name, 2, 1) = 'A';
6. List all student having letter 'A' in their namefirst.
SELECT * FROM student WHERE POSITION('A' IN namefirst) > 0;
7. Display the details of the student whose DOB is '1986-12-14'.
SELECT * FROM student WHERE DOB = '1986-12-14';

8. List all student having 'R' as first letter in their namefirst.
SELECT * FROM student WHERE LEFT(namefirst, 1) = 'R';
9. Display the <i>namefirst</i> , <i>lastname</i> from student relation with Customized column headings.
SELECT namefirst AS "First Name", namelast AS "Last Name" FROM student;
10. Display all students in ascending order of their DOB.
select * from student order by DOB asc;
11. Display two records of student whose name starts with the letter 'S'.
SELECT * FROM student WHERE LEFT(namefirst, 1) = 'S' LIMIT 2;
12. Display the student detail whose DOB is '1986-12-14'.
SELECT * FROM student WHERE DOB = '1986-12-14';
13. Display all modules whose module duration is 1 (use modules table).
select * from modules where duration='1';
14. Display all batches whose sitting capacity is 80 students (use course_batches table).
select * from course_batches where capacity='80';
15. 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' having marks>70;
16. 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' having year='2017';
17. 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 year='2017' having marks > '80';
18. Display faculty qualification who have done 'BE' from 'Harvard University' (use faculty_qualifications table)
select * from student_qualifications where name = 'be' and university = 'harvard university';
19. Display all courses whose course duration is 6 months. (use course table)
select * from course where duration = '6';
20. 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 modules where duration between 1 and 2 order by duration asc;
21. 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".
select id, namefirst, dob, case when dob < 1980 then '*the student can vote' else 'the student cannot vote' end as voting_rights from student;
22. Display all distinct universities from student_qualifications table.
select distinct university from student_qualifications;
23. Display the second highest marks scored by any student in 'BE'.
select max(marks) as second_highest_marks from student_qualifications where name = 'be' and marks < (select max(marks) from student_qualifications where name = 'be');
24. Display the second lowest marks scored by any student in 'BE'.
select min(marks) as second_lowest_marks from student_qualifications where name = 'be' and marks > (select min(marks) from student_qualifications where name = 'be');
25. Display last 7 student.
select * from student order by id desc limit 7;

