**Assignment**

**Feb25/ DBT/ 007**

**Database Technologies**

**Diploma in Advance Computing**

**February 2025**

**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;** |
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| 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;** |
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| 1. **List of various faculties available from faculty table.** |
| **select \*from faculty;** |
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| 1. **List all student having ‘A’ as second letter in their namefirst.** |
| **select namefirst from student having namefirst like '\_a%';** |
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| 1. **List all student having letter ‘A’ in their namefirst.** |
| **select namefirst from student having namefirst like '%a%';** |
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| 1. **Display the details of the student whose DoB is '1986-12-14'.** |
| **select \* from student where dob='1986-12-14';** |
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| 1. **List all student having ‘R’ as first letter in their namefirst.** |
| **select namefirst from student having namefirst like 'r%';** |
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| 1. **Display the *namefirst, lastName* from student relation with Customized column headings.** |
| **select namefirst as First\_Name,namelast as Last\_Name from student;** |
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| 1. **Display all students in ascending order of their DOB.** |
| **select \*from student order by dob;** |
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| 1. **Display two records of student whose name starts with the letter ‘S’.** |
| **select \*from student where namefirst like 's%' limit 2;** |
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| 1. **Display the student detail whose DOB is ‘1986-12-14’.** |
| **select \* from student where dob='1986-12-14';** |
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| 1. **Display all modules whose module duration is 1 (use modules table).** |
| **select \*from modules where duration=1;** |
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| 1. **Display all batches whose sitting capacity is 80 students (use course\_batches table).** |
| **select \*from course\_batches where capacity=80;** |
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| 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;** |
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| 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;** |
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| 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;** |
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| 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';** |
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| 1. **Display all courses whose course duration is 6 months.(use course table)** |
| **select \*from course where duration=6;** |
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| 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 modules having duration between 1 and 2 order by duration;** |
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| 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”.** |
| **Select id,namefirst,dob,case when year(dob)<=1980 then 'The Student Can Vote' else 'The Student Cannot Vote' end as r1 from student order by dob;** |
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| 1. **Display all distinct universities from student\_qualifications table.** |
| **select distinct university from student\_qualifications ;** |
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| 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 1,1;** |
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| 1. **Display the second lowest marks scored by any student in ‘BE’.** |
| **select distinct marks from student\_qualifications where name='be' order by marks limit 1,1;** |
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| 1. **Display last 7 student.** |
| **select \*from student order by id desc limit 7;** |
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