Assignment

Sept23/ DBT/ 009

Database Technologies

Diploma in Advance Computing

September 2023

**Joins**

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. Display all *student and with their address* from *student* and *student\_address tables*. |
| select s.id,s.namefirst,s.namelast,s.dob,s.emailid,a.address from student s,student\_address a where s.id=a.id; |
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| 1. Display *(namefirst, namelast, emailID, and student\_qualification details)* from *student* and student\_*qualification* relations. |
| select s.id,s.namefirst,s.namelast,s.emailid,a.name from student s,student\_qualifications a where s.id=a.studentid; |
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| 1. Display *(namefirst, namelast, emailID, college, and university)* who have studied in 'Yale University'. *(Use student, and student\_qualification relation)* |
| select s.id,s.namefirst,s.namelast,s.emailid,a.college,a.university from student s, student\_qualifications a where s.id=a.studentid and a.university='yale university'; |
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| 1. Display all student details his phone details and his qualification details. *(Use student, student\_phone and student\_qualification relation)* |
| select s.id,s.namefirst,s.namelast,s.dob,s.emailid,p.number,p.isactive,a.name,a.college,a.university,a.marks,a.year from student s,student\_phone p, student\_qualifications a where s.id=p.studentid and s.id=a.studentid; |
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| 1. Display *(studentID, namefirst, namelast, name, college, university, and marks)* whose name is ‘BE’.*(Use student, and student\_qualification relation)* |
| select s.id,s.namefirst,s.namelast,s.dob,s.emailid,a.name,a.college,a.marks from student s,student\_qualifications a where s.id=a.studentid and a.name='be'; |
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| 1. Display the module name and the duration of the module for the batch “Batch1”. |
| select m.id,m.name,m.duration from modules m,batch\_students s where m.id=s.batchid and batchid=1; |
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| 1. Display student information along with his batch details who have joined in “Batch1”. |
| select \*,s.name,s.courseid from student m,course\_batches s where m.id=s.courseid and s.name='batch1'; |
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| 1. Display module names for “PG-DAC” course. |
| select m.id,m.name,m.duration,c.name from modules m,course c,course\_modules cm where c.id=cm.courseid and m.id=cm.moduleid and c.name='pg-dac'; |
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| 1. Display *namefirst, namelast, and batch name for all students*. |
| select s.id,s.namefirst,s.namelast,cb.name from student s, batch\_students bs,course\_batches cb where s.id=bs.studentid and bs.batchid=cb.courseid; |
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| 1. Display *(namefirst, namelast, phone number, and emailid)* whose student ID is 13. |
| select s.namefirst , s.namelast, p.number,s.emailid from student s join student\_phone p where s.id=p.studentid and s.id=13; |
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| 1. Display *(namefirst and count the total number of phones a student is having)* for all student. |
| Select s.namefirst , count(\*) from student s join student\_phone p on s.id=p.studentid group by s.namefirst ; |
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| 1. Get student’s *(namefirst, namelast, DOB, address, name, college, university, marks, and year)*. |
| Select s.namefirst,s.namelast,s.dob,sa.address,sq.name,sq.college,sq.university,sq.marks,sq.year from student s,student\_address sa,student\_qualifications sq where s.id=sa.studentid and s.id=sq.studentid; |
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| 1. Get *(namefirst, namelast, emailID, phone number, and address)* whose faculty name is ‘ketan’. |
| Select f.namefirst,f.namelast,f.emailid,fp.number,fa.address from faculty f, faculty\_phone fp, faculty\_address fa where f.id=fp.facultyid and f.id=fa.facultyid |
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| 1. Get*(course name and batch name)*for all courses. |
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| 1. Get all student details who have taken admission in ‘PG-DAC’ course. |
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| 1. Get all course details which had started on ‘2016-02-01’. |
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| 1. Get all course name and module names which are taught in ‘PG-DAC’ course. |
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| 1. Display how many modules are taught in each course. |
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| 1. Display the student detail who are ‘BE’ graduate. |
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| 1. Display all distinct course detail, where module for every course is designed. |
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| 1. Display studentID who have more than 2 phone numbers. |
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| 1. Display the courses where ‘JAVA1’ is taught. |
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| 1. Display all student who have taken admission in 6 months course. |
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| 1. Write a query to display the output in the following manner.   **'saleel', 'Aadhaar, Driving Licence, PAN, Voter ID, Passport, Debit, Credit'**  Arrange the data is ascending order of *nameFirst.* |
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| 1. Write a query to display the output in the following manner.   **'ruhan', 'DBDA, PG-DAC, Pre-DAC'** |
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