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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| * Display all *student and with their address* from *student* and *student\_address tables*. |
| select \* from student join student\_address where student.id= student\_address.id; |
|  |
| * Display *(namefirst, namelast, emailID, and student\_qualification details)* from *student* and student\_*qualification* relations. |
| select namefirst, namelast, emailID, q.\* from student join student\_qualifications q where student.id=q.studentid; |
|  |
| * Display *(namefirst, namelast, emailID, college, and university)* who have studied in 'Yale University'. *(Use student, and student\_qualification relation)* |
| select s.namefirst, s.namelast, s.emailID, q.college, q.university from student s join student\_qualifications q where s.id=q.studentID having university= 'yale university' ; |
|  |
| * Display all student details his phone details and his qualification details. *(Use student, student\_phone and student\_qualification relation)* |
| select \* from student s join student\_phone p on s.id= p.studentid join student\_qualifications q on s.id= q.studentid ; |
|  |
| * 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,q.name,q.college, q.university, q.marks from student s join student\_qualifications q where s.id=q.studentID having q.name='BE'; |
|  |
| * Display the module name and the duration of the module for the batch “Batch1”. |
| select c.name, m.name, m.duration from modules m join course\_batches c where c.courseID=m.ID and c.name='Batch1'; |
|  |
| * Display student information along with his batch details who have joined in “Batch1”. |
| select \* from student s join batch\_students b on s.id=b.studentid join course\_batches c on b.batchID= c.ID where c.name='Batch1'; |
|  |
| * Display module names for “PG-DAC” course. |
| select c.name,m.name from course c join course\_modules cm on c.id=cm.courseID join modules m on m.id= cm.moduleID where c.name='PG-DAC'; |
|  |
| * Display *namefirst, namelast, and batch name for all students*. |
| select s.namefirst, s.namelast,c.name from student s join batch\_students b on s.id=b.studentID join course\_batches c on b.batchid=c.id; |
|  |
| * 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 on s.id=p.studentID where p.studentID=13; |
|  |
| * 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; |
|  |
| * Get student’s *(namefirst, namelast, DOB, address, name, college, university, marks, and year)*. |
| select s.namefirst, s.namelast,s.DOB,sa.address,q.name,q.college,q.university,q.marks,q.year from student s join student\_address sa on s.id=sa.studentID join student\_qualifications q on sa.studentID=q.studentID; |
|  |
| * Get *(namefirst, namelast, emailID, phone number, and address)* whose faculty name is ‘ketan’. |
| select f.namefirst, f.namelast,f.emailID,p.number,a.address from faculty f join faculty\_phone p on f.id=p.facultyid join faculty\_address a on p.facultyid=a.facultyid where f.namefirst='ketan'; |
|  |
| * Get*(course name and batch name)*for all courses. |
| select c.name,group\_concat( cb.name) from course c join course\_batches cb on c.id=cb.courseid group by c.name; |
|  |
| * Get all student details who have taken admission in ‘PG-DAC’ course. |
| select s.namefirst, s.namelast,c.name from student s join course\_modules m on s.id=m.id join course c on m.courseid=c.id where c.name='PG-DAC'; |
|  |
| * Get all course details which had started on ‘2016-02-01’. |
| select c.name, cb.\* from course c join course\_batches cb on c.id=cb.courseID where cb.starton='2016-02-01'; |
|  |
| * Get all course name and module names which are taught in ‘PG-DAC’ course. |
| select c.name,group\_concat(m.name) from course c join course\_modules cm on c.id=cm.courseid join modules m on cm.moduleid=m.id where c.name='PG-DAC'; |
|  |
| * Display how many modules are taught in each course. |
| select c.name,group\_concat(m.name) from course c join course\_modules cm on c.id=cm.courseid join modules m on cm.moduleid=m.id group by c.name; |
|  |
| * Display the student detail who are ‘BE’ graduate. |
| select s.id, s.namefirst, s.namelast, q.name from student s join student\_qualifications q on s.id = q.studentid where q.name='BE'; |
|  |
| * Display all distinct course detail, where module for every course is designed. |
| select c.id,c.name,c.duration,c.summery,group\_concat(m.name) from course c join course\_modules cm on c.id=cm.courseid join modules m on cm.moduleid=m.id group by c.id, c.name,c.duration,c.summery; |
|  |
| * Display studentID who have more than 2 phone numbers. |
| select s.id, s.namefirst,s.namelast,count(p.number) from student s join student\_phone p on s.id=p.studentid group by p.studentid having count(p.number)>2; |
|  |
| * Display the courses where ‘JAVA1’ is taught. |
| select c.id, c.name,m.name from course c join course\_modules cm on c.id=cm.courseid join modules m on cm.moduleid=m.id where m.name='JAVA1'; |
|  |
| * Display all student who have taken admission in 6 months course. |
| select s.id, s.namefirst, s.namelast, c.name, c.duration from student s join course\_modules cm on s.id = cm.id join course c on c.id = cm.courseid where c.duration=6; |
|  |
| * 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.* |
| select s.namefirst, group\_concat(sc.name) from student s join student\_cards sc on s.id = sc.studentid group by s.namefirst order by s.namefirst; |
|  |
| * Write a query to display the output in the following manner.   **'ruhan', 'DBDA, PG-DAC, Pre-DAC'** |
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