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 \* from student join student\_address using(id); |
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| 1. Display *(namefirst, namelast, emailID, and student\_qualification details)* from *student* and student\_*qualification* relations. |
| select \* from student join student\_qualifications on student.id=student\_qualifications.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 namefirst, namelast, emailID,college,university from student s join student\_qualifications q on s.id=q.studentid where university like '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 \* from student join student\_qualifications join student\_phone on student.id=student\_qualifications.studentid and student.id=student\_phone.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 namefirst, namelast, emailID,college,university from student s join student\_qualifications q on s.id=q.studentid where name like 'BE'; |
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| 1. Display the module name and the duration of the module for the batch “Batch1”. |
| Select modules.name,modules.duration from modules inner join course\_modules inner join course\_batches on modules.id = course\_modules.moduleid and course\_modules.courseid = course\_batches.id where course\_batches.name =‘batch1’; |
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| 1. Display student information along with his batch details who have joined in “Batch1”. |
| Select \* from student inner join course\_batches inner join batch\_students onstudent.id = batch\_students.studentid and course\_batches.id = batch\_students.batchid where course\_batches.name = ‘batch1’; |
|  |
| 1. Display module names for “PG-DAC” course. |
| select \* from course inner join modules inner join course\_modules on course.id = course\_modules.courseid and modules.id = course\_modules.moduleid where course.name = 'pg-dac'; |
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| 1. Display *namefirst, namelast, and batch name for all students*. |
| select namefirst,namelast,course\_batches.name from student join batch\_students join course\_batches on student.id = batch\_students.studentid and course\_batches.courseid = batch\_students.batchid; |
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| 1. Display *(namefirst, namelast, phone number, and emailid)* whose student ID is 13. |
| select namefirst,namelast,number,emailid from student join student\_phone on student.id = student\_phone.studentid; |
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| 1. Display *(namefirst and count the total number of phones a student is having)* for all student. |
| select namefirst,count(\*) c1 from student join student\_phone on student.id = student\_phone.studentid group by student.id; |
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| 1. Get student’s *(namefirst, namelast, DOB, address, name, college, university, marks, and year)*. |
| select namefirst,namelast,dob,address,name,college,university,marks,year from student join student\_address join student\_qualifications on student.id = student\_address.studentid and student.id = student\_qualifications.studentid; |
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| 1. Get *(namefirst, namelast, emailID, phone number, and address)* whose faculty name is ‘ketan’. |
| select namefirst,namelast,emailid,number,address from faculty join faculty\_phone join faculty\_address on faculty.id = faculty\_phone.facultyid and faculty.id = faculty\_address.facultyid where namefirst = 'ketan'; |
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| 1. Get*(course name and batch name)*for all courses. |
| select course.name,course\_batches.name from course join course\_batches on course.id = course\_batches.courseid; |
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| 1. Get all student details who have taken admission in ‘PG-DAC’ course. |
| select \* from student join course\_batches join batch\_students on student.id = batch\_students.studentid and course\_batches.id = batch\_students.batchid where course\_batches.courseid=1; |
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| 1. Get all course details which had started on ‘2016-02-01’. |
| select \* from course join course\_batches on course.id = course\_batches.courseid where starton = '2016-02-01'; |
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| 1. Get all course name and module names which are taught in ‘PG-DAC’ course. |
| select course.name,modules.name from course join modules join course\_modules on course.id = course\_modules.courseid and modules.id = course\_modules.moduleid where course.name = 'pg-dac'; |
|  |
| 1. Display how many modules are taught in each course. |
| select course.name,count(\*) c1 from course join modules join course\_modules on course.id = course\_modules.courseid and modules.id = course\_modules.moduleid group by course.name; |
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| 1. Display the student detail who are ‘BE’ graduate. |
| select \* from student inner join student\_qualifications on student.id=student\_qualifications.studentid where name like 'BE'; |
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| 1. Display all distinct course detail, where module for every course is designed. |
| select distinct \* from course join modules using(id); |
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| 1. Display studentID who have more than 2 phone numbers. |
| select s.id ,count(sp.number) from student s join student\_phone sp on s.id=sp.studentid group by sp.studentid having count(sp.number)>2; |
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| 1. Display the courses where ‘JAVA1’ is taught. |
| select course.name,modules.name from course inner join course\_modules on course.id=course\_modules.courseid inner join modules on modules.id=course\_modules.moduleid having modules.name='java1' ; |
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| 1. Display all student who have taken admission in 6 months course. |
| select distinct(s.id),s.namefirst,s.namelast,c.duration from student s join batch\_students bs on s.id=studentid join course\_batches cb on bs.batchid=cb.id join course c on c.id=cb.courseid having c.duration=6 ; |
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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.* |
| select concat(s.namefirst ," :- " , group\_concat(sc.name)) details from student s join student\_cards sc on s.id=sc.studentid group by s.namefirst; |
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| 1. Write a query to display the output in the following manner.   **'ruhan', 'DBDA, PG-DAC, Pre-DAC'** |
| select s.namefirst,group\_concat(c.name) from student s join batch\_students bs on s.id=studentid join course\_batches cb on bs.batchid=cb.id join course c on c.id=cb.courseid group by s.namefirst; |
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