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 studentID, namefirst, namelast,address from student simple 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 name,s.id ,namefirst, namelast, emailID, university, college from student s join student\_qualifications sq on s.id=sq.id; |
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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 sq where s.id=sq.id and 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 \* from student s join student\_qualifications sq on s.id=sq.studentid join student\_phone sp on s.id=sp.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 studentID, namefirst, namelast, name, college, university, marks from student s join student\_qualifications sq where s.id=sq.studentid and name='be'; |
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| 1. Display the module name and the duration of the module for the batch “Batch1”. |
| select m.name, m.duration from course\_batches cb join modules m join course\_modules cm where cb.courseID = cm.courseID and cm.moduleID = m.ID and cb.name="Batch1"; |
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| 1. Display student information along with his batch details who have joined in “Batch1”. |
| Select \* from student s join batch\_students b where s.id=b.id and b.batchid=1; |
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| 1. Display module names for “PG-DAC” course. |
| Select cm.courseID, m.name, m.id, c.name, cm.moduleid from modules m join course c join course\_modules cm where c.id=cm.courseID and cm.moduleID=m.id and c.id=1; |
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| 1. Display *namefirst, namelast, and batch name for all students*. |
| select namefirst, namelast, cb.name from student s join batch\_students bs join course\_batches cb where batchID = cb.ID and studentID = s.ID; |
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| 1. Display *(namefirst, namelast, phone number, and emailid)* whose student ID is 13. |
| Select namefirst, namelast,number,emailid from student s join student\_phone sp where s.id=sp.id 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 namefirst, count(number) from student s join student\_phone sp on s.id=sp.studentid group by namefirst; |
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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 s join student\_address sa on s.id=sa.studentid join student\_qualifications sq on sa.id=sq.id; |
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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 f join faculty\_phone fp join faculty\_address fa where f.id=fa.id=fp.id and namefirst=”ketan” ; |
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| 1. Get*(course name and batch name)*for all courses. |
| Select c.name, cb.name from course c join course\_modules cm join course\_batches cb where c.id=cm.courseid and cm.id=cb. id; |
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| 1. Get all student details who have taken admission in ‘PG-DAC’ course. |
| Select s. namefirst, s.namelast, s.emailid, s.dob, c.name from student s join course\_modules cm join course c where s.id=cm.id and cm.courseid=c.id and c.name="pg-dac"; |
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| 1. Get all course details which had started on ‘2016-02-01’. |
| Select c.name, cb.starton from course c join course\_batches cb where c.id=cb.courseid and starton='2016-02-01'; |
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| 1. Get all course name and module names which are taught in ‘PG-DAC’ course. |
| Select c.name, m.name from course c join course\_modules cm join modules m where c.id=cm.courseid and m.id=cm.moduleid and c.name=”pg-dac”; |
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| 1. Display how many modules are taught in each course. |
| Select c.name,count(m.name) from course c join course\_modules cm on c.id=cm.courseid join modules m on m.id=cm.moduleid group by c.name; |
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| 1. Display the student detail who are ‘BE’ graduate. |
| Select s.namefirst, s.namelast, s.emailid, sq.name, sq.college, sq.university from student s join student\_qualifications sq where s.id=sq.studentid and sq.name="be"; |
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| 1. Display all distinct course detail, where module for every course is designed. |
| Select \* from course c join course\_modules cm join modules m on c.id=cm.courseid and m.id=cm.moduleid; |
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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 s.id having count(sp.number)>2; |
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| 1. Display the courses where ‘JAVA1’ is taught. |
| Select c.name, m.name from course c join course\_modules cm join modules m where c.id=cm.courseid and m.id=cm.moduleid and m.name="java1"; |
|  |
| 1. Display all student who have taken admission in 6 months course. |
| Select s.namefirst, s.namelast, s.emailid, c.duration from student s join course\_modules cm join course c where s.id=cm.id and cm.courseid=c.id and 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.* |
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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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