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