Assignment /0025-0084

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.\*, sa. \* from student s inner join student\_address sa on s.id=sa.id; |
|  |
| 1. Display *(namefirst, namelast, emailID, and student\_qualification details)* from *student* and student\_*qualification* relations. |
| select namefirst, namelast,emailid, sa. \* from student s inner join student\_qualifications sa using(ID); |
|  |
| 1. Display *(namefirst, namelast, emailID, college, and university)* who have studied in 'Yale University'. *(Use student, and student\_qualification relation)* |
| select studentid,namefirst,namelast,emailid,college,university from student s inner join student\_qualifications sa on s.id=sa.studentid where university="Yale university"; |
|  |
| 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.emailid, sp.number, sq.name, sq.year, sq.marks from student s inner join student\_phone sp on s.id=sp.studentid inner join student\_qualifications sq on s.id=sq.studentid; |
|  |
| 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, sq.studentid, sq.name, sq.college, sq.university, sq.marks from student s inner join student\_qualifications sq on s.id=sq.studentid where name='BE'; |
|  |
| 1. Display the module name and the duration of the module for the batch “Batch1”. |
| select m.id,m.name,m.duration, cm.moduleid, cb.id, cb.name from modules m inner join course\_modules cm on m.id=cm.moduleid inner join course\_batches cb on cb.id=cm.courseid where cb.name='Batch1'; |
|  |
| 1. Display student information along with his batch details who have joined in “Batch1”. |
| select s.\*,bs. \*,cb. \* from student s inner join Batch\_students bs on s.id=bs.studentid inner join course\_batches cb on bs.studentid=cb.id where name='batch1'; |
|  |
| 1. Display module names for “PG-DAC” course. |
| select c.name,c.id,c.duration,c.summery,m. \*,cm. \* from course c inner join course\_modules cm on cm.courseid=c.id inner join modules m on m.id=cm.moduleid where c.name='PG-DAC'; |
|  |
| 1. Display *namefirst, namelast, and batch name for all students*. |
| select s.id,s.namefirst, s.namelast,cb.name from student s inner join batch\_students bs on s.id=bs.studentid inner join course\_batches cb on cb.id=bs.batchid order by s.id; |
|  |
| 1. Display *(namefirst, namelast, phone number, and emailid)* whose student ID is 13. |
| select distinct s.namefirst, s.namelast, sp.number, s.emailid from student s inner join student\_phone sp on s.id=sp.studentid where sp.studentid=13; |
|  |
| 1. Display *(namefirst and count the total number of phones a student is having)* for all student. |
| select s.id, s.namefirst, count(sp.number) count from student s inner join student\_phone sp on s.id=sp.studentID group by sp.studentid; |
|  |
| 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 inner join student\_address sa on s.id=sa.studentID inner join student\_qualifications sq on s.id=sq.studentID; |
|  |
| 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 inner join faculty\_phone fp on f.id=fp.facultyID inner join faculty\_address fa on f.id=fa.facultyid where namefirst='ketan'; |
|  |
| 1. Get*(course name and batch name)*for all courses. |
| select c.id, c.name, cb.courseID, cb.name from course c inner join course\_batches cb on c.id=cb.courseid; |
|  |
| 1. Get all student details who have taken admission in ‘PG-DAC’ course. |
| select s. \*, cb.name,c.name course from student s inner join batch\_students bs on s.id=bs.studentid inner join course\_batches cb on cb.id=bs.batchid inner join course c on cb.courseid=c.id where c.name='PG-DAC' order by s.id; |
|  |
| 1. Get all course details which had started on ‘2016-02-01’. |
| select c.name, cb.name, cb.courseID, cb.starton from course c inner join course\_batches cb on c.id=cb.courseid where starton='2016-02-01'; |
|  |
| 1. Get all course name and module names which are taught in ‘PG-DAC’ course. |
| select c. \*, m.name modules from course c inner join course\_modules cm on c.id=cm.courseid inner join modules m on m.id=cm.moduleid where c.name='PG-DAC'; |
|  |
| 1. Display how many modules are taught in each course. |
| select c. \*, count(m.name) modules from course c inner join course\_modules cm on c.id=cm.courseid inner join modules m on m.id=cm.moduleid group by cm.courseid; |
|  |
| 1. Display the student detail who are ‘BE’ graduate. |
| select s. \*, sq.name, sq.college, sq.university, sq.marks, sq.year from student s inner join student\_qualifications sq on s.id=sq.studentid where sq.name='BE'; |
|  |
| 1. Display all distinct course detail, where module for every course is designed. |
| select distinct\* from course c inner join course\_modules cm on c.id=cm.courseid inner join modules m on m.id=cm.moduleid; |
|  |
| 1. Display studentID who have more than 2 phone numbers. |
| select sp.studentid, count(sp.number) count from student s inner join student\_phone sp on s.id=sp.studentID group by s.id having count(sp.number)>2; |
|  |
| 1. Display the courses where ‘JAVA1’ is taught. |
| select c. \*, m.name from course c inner join course\_modules cm on c.id=cm.courseid inner join modules m on m.id=cm.moduleid where m.name ='JAVA1'; |
|  |
| 1. Display all student who have taken admission in 6 months course. |
| select s. \*, cb.name,c.name,c.duration course from student s inner join batch\_students bs on s.id=bs.studentid inner join course\_batches cb on cb.id=bs.batchid inner join course c on cb.courseid=c.id where c.duration=6 order by s.id; |
|  |
| 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 on s.id=sc.studentid group by s.namefirst; |
|  |
| 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 join course\_batches cb join course c on s.id=bs.studentid and c.id=cb.courseid and cb.id=bs.batchid group by namefirst; |
|  |