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 student.id, namefirst, address from student, student\_address where student.id = student\_address.studentid; |
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| 1. Display *(namefirst, namelast, emailID, and student\_qualification details)* from *student* and student\_*qualification* relations. |
| select namefirst,namelast,emailID, student\_qualifications.\* from student,student\_qualifications where 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,student\_qualifications where student.id=student\_qualifications.studentID 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, student\_phone, student\_qualifications where student.id = student\_phone.studentid = student\_qualifications.studentid; |
|  |
| 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, student\_qualifications where student.id = student\_qualifications.studentid && name = 'BE'; |
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| 1. Display the module name and the duration of the module for the batch “Batch1”. |
| select course\_batches.name, modules.name, duration from course\_batches,course\_modules, modules where course\_batches.name = 'Batch1' and course\_modules.courseid = 1 and course\_modules.moduleid = modules.id order by moduleid; |
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| 1. Display student information along with his batch details who have joined in “Batch1”. |
| select distinct batch\_students.studentid, namefirst, namelast, name from course\_batches, batch\_students, student where name = 'Batch1' and student.id=batch\_students.studentID; |
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| 1. Display module names for “PG-DAC” course. |
| select course.name, modules.name from course,course\_modules,modules where course.id=1 and courseID=1 and course\_modules.ModuleID=MODULES.ID; |
|  |
| 1. Display *namefirst, namelast, and batch name for all students*. |
| SELECT NAMEFIRST, NAMELAST, NAME FROM STUDENT, BATCH\_STUDENTS, COURSE\_BATCHES WHERE STUDENT.ID = BATCH\_STUDENTS.STUDENTID AND BATCH\_STUDENTS.BATCHID = COURSE\_BATCHES.ID; |
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| 1. Display *(namefirst, namelast, phone number, and emailid)* whose student ID is 13. |
| select distinct student.id, namefirst, namelast, emailid, number, isactive from student, student\_phone where student.id = student\_phone.studentId and student.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(\*) count from student s,student\_phone p where s.id=p.studentid group by number,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,student\_address,student\_qualifications  -> where student.id=student\_address.studentid=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,FACULTY\_PHONE,FACULTY\_ADDRESS  -> WHERE FACULTY.ID=FACULTY\_PHONE.FACULTYID=FACULTY\_ADDRESS.FACULTYID  -> AND NAMEFIRST="KETAN"; |
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| 1. Get*(course name and batch name)*for all courses. |
| select,course.name,course\_batches.name  -> from course,course\_batches  -> where course\_batches.courseid=course.id; |
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| 1. Get all student details who have taken admission in ‘PG-DAC’ course. |
| select distinct course.name, student.namefirst, student.namelast, student.emailid from student, course, course\_batches, batch\_students where course\_batches.courseid=batch\_students.batchid and course.id=1 and batch\_students.studentid = student.id; |
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| 1. Get all course details which had started on ‘2016-02-01’. |
| select course.id,starton, course.name, course.duration, course.summery from course\_batches, course where starton = '2016-02-01' and course\_batches.courseid = course.id; |
|  |
| 1. Get all course name and module names which are taught in ‘PG-DAC’ course. |
| select course.name, modules.name from course,course\_modules,modules where course.id=1 and courseID=1 and course\_modules.ModuleID=MODULES.ID; |
|  |
| 1. Display how many modules are taught in each course. |
| select name, count(courseid) count from course\_modules,course where course\_modules.courseid=course.id group by courseid; |
|  |
| 1. Display the student detail who are ‘BE’ graduate. |
| select student.id, namefirst, namelast , emailid, student\_qualifications.name from student, student\_qualifications where name = 'BE' and student.id = student\_qualifications.studentid; |
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| 1. Display all distinct course detail, where module for every course is designed. |
| Select distinct c.\* from course c join course\_modules cm join modules m on c.id=cm.courseid and cm.moduleid = m.id ; |
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| 1. Display studentID who have more than 2 phone numbers. |
| select studentid ,count(number) from student\_phone group by studentid having count(number) > 2 ; |
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| 1. Display the courses where ‘JAVA1’ is taught. |
| select course.name, modules.name from course, modules ,course\_modules where course.id=course\_modules.courseid and course\_modules.moduleid=modules.id and modules.name="JAVA1"; |
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| 1. Display all student who have taken admission in 6 months course. |
| select namefirst,namelast, course.name from student , course,course\_batches,batch\_students where course.id=course\_batches.courseid and course\_batches.id= batch\_students.batchid and batch\_students.studentid = student.id and 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 namefirst, group\_concat(student\_cards.name) from student,student\_cards where student\_cards.studentid = student.id group by namefirst order by namefirst; |
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| 1. Write a query to display the output in the following manner.   **'ruhan', 'DBDA, PG-DAC, Pre-DAC'** |
| select namefirst, group\_concat(course.name) from student, course,course\_batches,batch\_students where course\_batches.courseid = course.id and course\_batches.id=batch\_students.batchid and batch\_students.studentid= student.id group by namefirst; |
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