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 namefirst,namelast,address FROM student, student\_address WHERE student.ID = student\_address.ID; |
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| 1. Display *(namefirst, namelast, emailID, and student\_qualification details)* from *student* and student\_*qualification* relations. |
| SELECT namefirst,namelast,emailID,college,university FROM student, student\_qualifications WHERE student.ID = student\_qualifications.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)* |
| 1. SELECT namefirst,namelast,emailID,college,university FROM student, student\_qualifications WHERE student.ID = student\_qualifications.ID AND university='Yale University'; 2. SELECT namefirst,namelast,emailID,college,university FROM student, student\_qualifications WHERE student.ID = student\_qualifications.ID HAVING 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\_qualifications,student\_phone WHERE student.ID = student\_qualifications.ID=student\_phone.ID; |
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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 JOIN student\_qualifications WHERE name='BE'AND student.ID = student\_qualifications.studentID; |
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| 1. Display the module name and the duration of the module for the batch “Batch1”. |
| SELECT m.name,m.duration,cb.ID FROM modules AS m,course\_batches AS cb,course\_modules AS cm WHERE m.ID = cm.moduleID AND cb.courseID = cm.courseID HAVING cb.ID=1; |
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| 1. Display student information along with his batch details who have joined in “Batch1”. |
| SELECT \* FROM student AS s,batch\_students AS bs WHERE s.ID=bs.studentID AND bs.batchID=1; |
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| 1. Display module names for “PG-DAC” course. |
| SELECT m.name, c.name FROM modules AS m, course AS c, course\_modules AS cm WHERE m.ID=cm.moduleID AND c.ID = cm.courseID HAVING c.name="PG-DAC"; |
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| 1. Display *namefirst, namelast, and batch name for all students*. |
| SELECT s.namefirst, s.namelast , cb.name FROM student AS s, batch\_students AS bs, course\_batches AS cb WHERE s.ID=bs.studentID AND cb.ID=bs.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 s natural join student\_phone where 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),s.id from student s inner join student\_phone sp where s.id=sp.studentid group by s.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 natural join student\_qualifications; |
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| 1. Get *(namefirst, namelast, emailID, phone number, and address)* whose faculty name is ‘ketan’. |
| select fp.facultyID,namefirst,namelast,emailID,address,GROUP\_CONCAT(number) from faculty f inner join faculty\_address fa on f.id=fa.facultyid inner join faculty\_phone fp on fa.facultyid=fp.facultyid group by(fp.facultyid); |
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| 1. Get*(course name and batch name)*for all courses. |
| SELECT cb.name ,c.name from course\_Batches cb inner join course c on c.ID = cb.courseID; |
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| 1. Get all student details who have taken admission in ‘PG-DAC’ course. |
| SELECT s.ID,namefirst,namelast,emailID,DOB from student s inner join batch\_students bs on s.ID = bs.studentID,course c inner join course\_batches cb on c.ID = cb.courseId ,; |
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| 1. Get all course details which had started on ‘2016-02-01’. |
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| 1. Get all course name and module names which are taught in ‘PG-DAC’ course. |
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| 1. Display how many modules are taught in each course. |
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| 1. Display the student detail who are ‘BE’ graduate. |
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| 1. Display all distinct course detail, where module for every course is designed. |
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| 1. Display studentID who have more than 2 phone numbers. |
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| 1. Display the courses where ‘JAVA1’ is taught. |
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| 1. Display all student who have taken admission in 6 months course. |
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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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