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,address from student natural join student\_address; |
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| 1. Display *(namefirst, namelast, emailID, and student\_qualification details)* from *student* and student\_*qualification* relations. |
| Select namefirst,namelast,emailed,college,university,marks from student s inner join student\_qualification using(s.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 s.namefirst, s.namelast, s.emailed,sq.college, sq.university from student sq inner join on s.id=sq.studentid; |
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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\_phone sp inner join student\_qualifications sq on sp.studentid=sq.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 s.id,s.namefirst,s.namelast,sq.name,sq.college,sq.university,sq.marks from student inner join on s.id=sq.studentid; |
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| 1. Display the module name and the duration of the module for the batch “Batch1”. |
| Select cb.name,m.duration from module m join course\_modules cm on m.id=cm.courseid join course\_batches cb on cb.courseid=cm.courseid where cb.name=”batch1”; |
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| 1. Display student information along with his batch details who have joined in “Batch1”. |
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| 1. Display module names for “PG-DAC” course. |
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| 1. Display *namefirst, namelast, and batch name for all students*. |
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| 1. Display *(namefirst, namelast, phone number, and emailid)* whose student ID is 13. |
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| 1. Display *(namefirst and count the total number of phones a student is having)* for all student. |
| select s.namefirst, sp.number,count(\*) from student s join student\_phone sp on s.id=sp.studentid join student\_address sa on sa.studentid= sp.studentid group by s.namefirst,sp.number; |
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| 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 join student\_address sa on s.id=sa.studentid join student\_qualifications sq on sq.studentid=sa.studentid; |
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| 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 join faculty\_phone fp on f.id=fp.facultyid join faculty\_address fa on fa.facultyid=fp.facultyid and f.namefirst='ketan'; |
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| 1. Get*(course name and batch name)*for all courses. |
| select c.name,m.name,cb.name from course c join course\_batches cb on c.id=cb.courseid join modules m on cb.courseid=m.id; |
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| 1. Get all student details who have taken admission in ‘PG-DAC’ course. |
| select c.name,cb.name,cb.starton,cb.capacity from course c join course\_batches cb on c.id=cb.courseid join course\_modules cm on cb.courseid=cm.id and starton='2016-02-01'; |
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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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