naAssignment

Aug24/ DBT/ 008

Database Technologies

Diploma in Advance Computing

August 2024

**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 \* from student join student\_qualifications; |
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| 1. Display *(namefirst, namelast, emailID, and student\_qualification details)* from *student* and student\_*qualification* relations. |
| select namefirst , namelast ,emailid ,university , name ,marks,college,year from student join student\_qualifications; |
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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 join student\_qualifications 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 namefirst,dob,number,name,university from student s join student\_phone sp ON s.id = sp.studentid 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 studentid,namefirst,namelast,name,college,university,marks from student join student\_qualifications where name='BE'; |
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| 1. Display the module name and the duration of the module for the batch “Batch1”. |
| select name , duration from modules join batch\_students where batchid=1; |
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| 1. Display student information along with his batch details who have joined in “Batch1”. |
| select studentid, namefirst , name , duration from student join modules join batch\_students where batchid=1; |
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| 1. Display module names for “PG-DAC” course. |
| select m.name from modules m join course\_modules cm on m.id =cm.moduleid join course c on c.id = cm.courseid where c.name = 'PG-DAC'; |
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| 1. Display *namefirst, namelast, and batch name for all students*. |
| select namefirst,namelast,name from student join course\_batches; |
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| 1. Display *(namefirst, namelast, phone number, and emailid)* whose student ID is 13. |
| select studentID,namefirst,namelast,number,emailID from student join student\_phone where studentID = 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) from student join student\_phone 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 join student\_qualifications sq on s.ID = sq.studentID join student\_address sa on s.id = sa.studentID; |
|  |
| 1. Get *(namefirst, namelast, emailID, phone number, and address)* whose faculty name is ‘ketan’. |
| select namefirst , namelast ,emailID ,number ,address from faculty f join faculty\_address fa on fa.id=f.id join faculty\_phone fp on fp.id=f.id where namefirst like("ketan"); |
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| 1. Get*(course name and batch name)*for all courses. |
| select c.name , cb.name from course c join course\_batches cb; |
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| 1. Get all student details who have taken admission in ‘PG-DAC’ course. |
| select \* from student join course where name like("PG-DAC"); |
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| 1. Get all course details which had started on ‘2016-02-01’. |
| select \* from course join course\_batches where starton like("2016-02-01"); |
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| 1. Get all course name and module names which are taught in ‘PG-DAC’ course. |
| select \* from course join course\_modules where name like ("PG-DAC"); |
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| 1. Display how many modules are taught in each course. |
| select count(cm.moduleid) module\_count from course c join course\_modules cm on c.id = cm.id; |
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| 1. Display the student detail who are ‘BE’ graduate. |
| select s.\* from student s join student\_qualifications sq on s.id = sq.studentId where sq.name like("BE"); |
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| 1. Display all distinct course detail, where module for every course is designed. |
| select distinct name from course c join course\_modules cm where c.id = cm.moduleID; |
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| 1. Display studentID who have more than 2 phone numbers. |
| select studentid from student\_phone group by studentid having count(number) = 2; |
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| 1. Display the courses where ‘JAVA1’ is taught. |
| select c.name from course c join modules m where m.name like("JAVA1"); |
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| 1. Display all student who have taken admission in 6 months course. |
| select \* from student s join course where 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 CONCAT('\'', s.nameFirst, '\'', ', \'', GROUP\_CONCAT(sc.name SEPARATOR ', '), '\'') AS output FROM student s JOIN student\_cards sc ON s.ID = sc.studentID GROUP BY s.ID ORDER 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'** |
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