**Assignment**

**Feb25/ DBT/ 009**

**Database Technologies**

**Diploma in Advance Computing**

**February 2025**

**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.address from student s join student\_address sa on s.id=**  **sa.studentid;** |
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| 1. **Display *(namefirst, namelast, emailID, and student\_qualification details)* from *student* and student\_*qualification* relations.** |
| **select s.namefirst,s.namelast,s.emailid,sq.\* from student s join stud**  **ent\_qualifications sq on s.id=sq.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 s.namefirst,s.namelast,s.emailid,sq.college,sq.university from**  **student s join student\_qualifications sq on s.id=sq.studentid where 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 s.\*,sp.\*,sq.\* from student s join student\_phone sp on s.id=sp.**  **studentid join student\_qualifications sq on s.id=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 s join student\_qualifications sq on s.id=sq.studentid where name='be';** |
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| 1. **Display the module name and the duration of the module for the batch “Batch1”.** |
| **select m.name,m.duration from modules m join course\_modules cm on m.id=cm.moduleid join course\_ batches cb on cm.courseid=cb.courseid where cb.name='batch1';** |
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| 1. **Display student information along with his batch details who have joined in “Batch1”.** |
| **select s.\*,cb.\* from student s join batch\_students bs on s.id=bs.studentid join course\_batches cb on bs.batchid=cb.id where cb.name='batch1';** |
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| 1. **Display module names for “PG-DAC” course.** |
| **select m.name from course c join course\_modules cm on c.id=cm.courseid join modules m on cm.moduleid=m.id where 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 s join batch\_students bs on s.id=bs.studentid join course\_batches cb on bs.batchid=cb.id ;** |
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| 1. **Display *(namefirst, namelast, phone number, and emailid)* whose student ID is 13.** |
| **select s.namefirst,s.namelast,sp.number,s.emailid from student s join student\_phone sp on s.id=sp.id 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 s.namefirst , count(sp.number) from student s join student\_phone sp on s.id=sp.id group**  **by s.namefirst;** |
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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 s.id=s**  **q.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 f.id=fa.facultyid where f.namefirst='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 on c.id=cb.courseid;** |
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| 1. **Get all student details who have taken admission in ‘PG-DAC’ course.** |
| **select s.\* from student s join batch\_students bs on s.id=bs.studentid join course\_batches cb on bs.batchid=cb.id join course c on cb.courseid=c.id where c.name='pg-dac';** |
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| 1. **Get all course details which had started on ‘2016-02-01’.** |
| **select c.\*,cb.name,cb.starton from course c join course\_batches cb on c.id=cb.course**  **id where cb.starton='2016-02-01';** |
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| 1. **Get all course name and module names which are taught in ‘PG-DAC’ course.** |
| **select c.name,m.name from course c join course\_modules cm on c.id=cm.courseid join modules m on cm.moduleid=m.id where c.name='pg-dac';** |
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| 1. **Display how many modules are taught in each course.** |
| **select c.name,count(m.name) Module\_Count from course c join course\_modules cm on c.i**  **d=cm.courseid join modules m on cm.moduleid=m.id group by c.name;** |
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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='be';** |
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| 1. **Display all distinct course detail, where module for every course is designed.** |
| **select c.name,count(\*) from course c join course\_modules cm on c.id=cm.courseid join modules m on cm.moduleid=m.id group by c.name;** |
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| 1. **Display studentID who have more than 2 phone numbers.** |
| **select s.id,count(\*) from student s join student\_phone sp on s.id=sp.studentid group by sp.studentid having count(\*)=2;** |
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| 1. **Display the courses where ‘JAVA1’ is taught.** |
| **select c.name,m.name from course c join course\_modules cm on c.id=cm.courseid join modules m on cm.moduleid=m.id where m.name='java1';** |
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| 1. **Display all student who have taken admission in 6 months course.** |
| **select s.\* ,cs.name,cs.duration,cb.name from student s join batch\_students bs on s.id=bs.studentid join course\_batches cb on cb.id=bs.batchid join course cs on cb.courseid=cs.id where cs.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 s.namefirst,group\_concat(name) from student s join student\_cards sc on s.id=sc.studentid group by studentid 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'** |
| **select s.namefirst,group\_concat(c.name) from student s join batch\_students bs on s.id=bs.studentid join course\_batches cb on bs.batchid=cb.id join course c on cb.courseid=c.id group by s.namefirst;** |
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