

Faculty of Science Department of Computer Application Master of Computer Application

**Code: 23MCACC107 | SubjectName: Databases Enterprise Applications** 

Name:-Jainish Barbhaya

```
-- Question 1: Students and Courses Tables -----
-- create table in coureses-----
DROP TABLE Courses PURGE;
create table Courses(
   course id number primary key,
   course_name varchar2(100)
   );
-- create table in student-----
DROP TABLE Students PURGE;
create table Students(
   student id number primary key,
   student name varchar2(50),
   enrollment date date ,
   course id number,
   foreign key (course id) references Courses
   );
----- Courses Table Insert Questions:
insert into Courses(course_id,course_name)
                      VALUES (201, 'Database Management');
insert into Courses(course id, course name)
                      VALUES (202, 'Web Development');
insert into Courses(course id, course name)
                      VALUES (203, 'Programming Fundamentals');
insert into Courses(course id, course name)
```



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VALUES (204, 'Data Structures');
insert into Courses(course_id,course_name)
                       VALUES (205, 'Software Engineering');
insert into Courses(course_id, course_name)
                       VALUES (206, 'Network Security');
insert into Courses(course id, course name)
                       VALUES (207, 'Artificial Intelligence');
insert into Courses(course id, course name)
                       VALUES (208, 'Mobile App Development');
insert into Courses(course id, course name)
                       VALUES (209, 'Operating Systems');
insert into Courses(course id, course name)
                       VALUES (210, 'Computer Graphics');
----- Students Table Insert Questions: -----
insert into Students(student_id, student_name, enrollment_date, course_id)
                       VALUES (101, 'John Smith', '15-sep-2022', 201);
insert into Students(student id, student name, enrollment date, course id)
                       VALUES (102, 'Mary Johnson', '20-aug-2022', 202);
insert into Students(student id, student name, enrollment date, course id)
                       VALUES (103, 'David Wilson', '10-oct-2022', 203);
insert into Students(student id, student name, enrollment date, course id)
                       VALUES (104, 'Jessica Brown', '05-jul-2022', 204);
```



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insert into Students(student id, student name, enrollment date, course id)
                       VALUES (105, 'Emily Davis', '30-nov-2022', 205);
insert into Students(student id, student name, enrollment date, course id)
                       VALUES (106, 'Daniel Miller', '12-jun-2022', 206);
insert into Students(student id, student name, enrollment date, course id)
                       VALUES (107, 'Olivia Harris', '25-dec-2022', 207);
insert into Students(student_id, student_name, enrollment_date, course_id)
                       VALUES (108, 'Liam Martinez', '08-may-2022', 208);
insert into Students(student_id, student_name, enrollment_date, course_id)
                       VALUES (109, 'Ava Jones', '18-apr-2022', 209);
insert into Students(student id, student name, enrollment date, course id)
                       VALUES (110, 'Noah Anderson', '02-mar-2022', 210);
----- Question 2: Employees and Departments Tables -----
-- create table in Departments-----
DROP TABLE Departments PURGE;
create table Departments(
    department id number primary key,
    department name varchar2(100)
    );
-- create table in Employees-----
DROP TABLE Employees PURGE;
create table Employees(
```



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employee id number primary key,
   first name varchar2(50),
   last name varchar2(50),
   department id number,
   salary number,
    foreign key (department_id) references Departments
   );
----- Departments Table Insert Questions: ------
insert into Departments(department id, department name)
                   VALUES (101, 'Information Technology');
insert into Departments(department id, department name)
                    VALUES (102, 'Human Resources');
insert into Departments(department id, department name)
                    VALUES (103, 'Marketing');
insert into Departments(department id, department name)
                   VALUES (104, 'Finance');
insert into Departments(department id, department name)
                   VALUES (105, 'Operations');
insert into Departments (department id, department name)
                   VALUES (106, 'Research and Development');
insert into Departments(department id, department name)
                   VALUES (107, 'Customer Support');
insert into Departments(department id, department name)
                    VALUES (108, 'Sales');
```



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```
insert into Departments (department id, department name)
                    VALUES (109, 'Quality Assurance');
insert into Departments(department id, department name)
                    VALUES (110, 'Legal Affairs');
----- Employees Table Insert Questions: ------
insert into
Employees (employee id, first name, last name, department id, salary)
                    VALUES (1001, 'John', 'Smith', 101, 60000.00);
insert into
Employees (employee id, first name, last name, department id, salary)
                    VALUES (1002, 'Mary', 'Johnson', 102, 55000.00);
insert into
Employees (employee id, first name, last name, department id, salary)
                    VALUES (1003, 'David', 'Wilson', 103, 62000.00);
insert into
Employees (employee_id, first_name, last_name, department_id, salary)
                    VALUES (1004, 'Jessica', 'Brown', 101, 58000.00);
insert into
Employees (employee id, first name, last name, department id, salary)
                    VALUES (1005, 'Emily', 'Smith', 102, 61000.00);
insert into
Employees (employee_id, first_name, last_name, department_id, salary)
                    VALUES (1006, 'Daniel', 'Miller', 103, 54000.00);
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## **ATMIYA University**

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insert into
Employees (employee id, first name, last name, department id, salary)
                    VALUES (1007, 'Olivia', 'Harris', 101, 59000.00);
insert into
Employees (employee_id, first_name, last_name, department_id, salary)
                    VALUES (1008, 'Liam', 'Martinez', 102, 57000.00);
insert into
Employees(employee_id, first_name, last_name, department_id, salary)
                    VALUES (1009, 'Ava', 'Jones', 103, 63000.00);
insert into
Employees(employee_id, first_name, last_name, department_id, salary)
                    VALUES (1010, 'Noah', 'Anderson', 101, 56000.00);
-- Question 3: Orders and Customers Tables-----
-- create table in Customers-----
DROP TABLE Customers PURGE;
create table Customers(
    customer id number primary key,
    customer name varchar2(100),
    email varchar2(100)
    );
-- create table in Orders-----
DROP TABLE Orders PURGE;
create table Orders(
    order id number primary key,
```



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```
order date date,
   customer id number,
   foreign key (customer id) references Customers
   );
-- Question 4: Authors and Books Tables-----
-- create table in Authors-----
DROP TABLE Authors PURGE;
create table Authors(
   author id number primary key,
   author name varchar2(100),
   nationality varchar2(50)
   );
-- create table in Books-----
DROP TABLE Books PURGE;
create table Books(
   book_id number primary key,
   book title varchar2(200),
   author id number,
   foreign key (author id) references Authors
   );
1. Retrieve the names of all students in the Students table.
   SELECT student name FROM Students;
```



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Name:-Jainish Barbhaya

Enrollment no:-15618223014

OP:

STUDENT NAME

John Smith
Mary Johnson
David Wilson
Jessica Brown
Emily Davis
Daniel Miller
Olivia Harris
Liam Martinez
Ava Jones
Noah Anderson

10 rows selected.

2. Find the students who were enrolled before January 1, 2022.

SELECT \* FROM Students WHERE enrollment\_date < '1-jan-2022';
OP:</pre>

STUDENT_ID	STUDENT_NAME	ENROLLMENT_DATE	COURSE_ID
101	John Smith	15-09-22	201
102	Mary Johnson	20-08-22	202
103	David Wilson	10-10-22	203
104	Jessica Brown	05-07-22	204
105	Emily Davis	30-11-22	205
106	Daniel Miller	12-06-22	206
107	Olivia Harris	25-12-22	207
108	Liam Martinez	08-05-22	208
109	Ava Jones	18-04-22	209
110	Noah Anderson	02-03-22	210



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Enrollment no:-15618223014

3. List the students whose names start with the letter 'D'.

SELECT \* FROM Students WHERE student\_name LIKE 'D%';
OP:

STUDENT_ID	STODENT_N	IAME ENROLLMENT_	DATE COURSE_ID
103 Da	vid Wilson	10-10-22	203
106 Da	niel Miller	12-06-22	206

4. Display the count of students in the Students table.

```
SELECT COUNT(*) as student_count FROM Students;
OP:
```

STUDENT\_COUNT

10

10 rows selected.

5. Find the student with the highest student\_id.

```
select max(student_id) from Students;
OP:
```

STUDENT\_ID

110