SQL MODULE LAB - 10

BY

Sai Sujan C

Lab: Use the same student management system Database andtable from the previous

lab. Perform the following commands on the table Student and Enrollment.

- 1. Assume a university where students can enroll in various courses. Now, write down a FULL outer JOIN query to retrieve the details.
- 2. Assume a university where students can enroll in various courses. Now, write down a Natural JOIN query to retrieve the details.

Submission:

Create an SQL script file containing your solutions for all tasks (queries). Name the file "lab_assignmentl.sql" Provide comments above each query to indicate the query's purpose.

ChatGPT Exercise

Using ChatGPT generates SQL queries of the below problem.

Scenario 1: We have an "inventory" Table with the following columns: ProductID, ProductName, StockQuantity, and "sales" Table with the following columns: SalaID, ProductID(foreign law)

with the following columns: SaleID, ProductID(foreign key), SaleQuantity, SaleDate. Now you need to use full outer join to generate a report that includes all products in the inventory and their sales, displaying NULL values for products that haven't been sold. Generate the ChatGPT prompt for the above scenario.

SOLUTION:

1. Assume a university where students can enroll in various courses. Now, write down a FULL outer JOIN query to retrieve the details.

Code:

SELECT

Student.StudentId,

Student.StudentName,

Student.BirthDate,

Student. Email AS Email,

Enrollment.EnrollmentId,

Enrollment.StudentId AS EnrollmentStudentId,

Enrollment.Courseld,

Enrollment.EnrollmentDate,

Enrollment.CourseName

FROM

Student

LEFT JOIN

Enrollment

ON

Student.StudentId = Enrollment.StudentId

Output:

mysql> SELEC -> Stude -> Stude	T nt.StudentId, nt.StudentName,							
-> Stude -> Stude -> Enrol -> Enrol	nt.StudentId, nt.StudentName, nt.BirthDate, nt.Email AS Email, lment.ErnollmentId, lment.StudentId AS Enr	ollmentStuder	ntId.					
-> Enrol	lment.CourseId, lment.EnrollmentDate, lment.CourseName	or incheseuder	10.20					
-> FROM -> Stude -> LEFT -> Enrol	OOIN							
-> ON -> Stude	nt.StudentId = Enrollm	+		+		+	+	+
+	i	BirthDate	Email	÷	EnrollmentStudentId	+	+	÷ i
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Code:

SELECT

Student.StudentId,

Student.StudentName,

Student.BirthDate,

Student.Email AS Email,

Enrollment.EnrollmentId,

Enrollment.StudentId AS EnrollmentStudentId,

Enrollment.Courseld,

Enrollment.EnrollmentDate,

Enrollment.CourseName

FROM

Student

RIGHT JOIN

Enrollment

ON

Student.StudentId = Enrollment.StudentId;

Output:

```
## Student StudentId,

Student Student StudentId,

Student Student StudentId,

For Ollment Enrollment StudentId,

For Ollment Enrollment StudentId AS EnrollmentStudentId,

For Ollment Enrollment StudentId AS EnrollmentStudentId,

For Ollment Enrollment Courselane

Student StudentId StudentId Enrollment StudentId;

Student Student StudentId Enrollment StudentId;

Student Student StudentId;

Student StudentId Enrollment StudentId;

Student StudentId;

Student StudentId;

Student Studen
```

4	Vihaan Kumar	2000-11-05	vihaan.kumar@example.com	134	4	104	2021-04-05	Biology
5	Arjun Patel	2003-02-18	arjun.patel@example.com	135	5	105	2021-05-18	Computer Science
6	Sai Reddy	2001-06-30	sai.reddy@example.com	136	6	106	2021-06-30	History
7 [Reyansh Nair	2002-09-12	reyansh.nair@example.com	137	7 [107	2021-07-12	Geography
8	Ayaan Iyer	2000-12-25	ayaan.iyer@example.com	138	8	108	2021-08-25	Geography Political Science
9	Krishna Rao	2001-04-19	krishna.rao@example.com	139	9	109	2021-09-19	Economics
10	Ishaan Mehta	2002-08-03	ishaan.mehta@example.com	140	10	110	2021-10-03	English Literature
11	Kabir Joshi	2000-10-14	kabir.joshi@example.com	141	10 11	111	2021-11-14	Philosophy
12	Arnav Das	2001-01-29	arnav.das@example.com	142	12	112	2021-12-29	Sociology
13 i	Atharv Chatterjee	2002-05-07	atharv.chatterjee@example.com	143	13	113	2022-01-07	Psychology
14	Dhyey Mukherjee	2003-09-22	dhvev.mukheriee@example.com	144	14	114	2022-02-22	Psychology Statistics
15	Aarush Roy	2000-02-10	aarush.rov@example.com	145	15	115	2022-03-10	Business Administratio
16	Rudra Bhattacharya	2001-03-18	rudra.bhattacharya@example.com	146	16	116	2022-04-10	Marketing
17	Advait Banerjee	2002-06-25	advart.banerree@example.com	147	16 17	117	2022-05-17	Finance
18	Yug Verma	2003-08-17	yug.verma@example.com	148	18	118	2022-06-12	Accounting
19	Shiv Kapoor	2000-11-28	shiv.kapoor@example.com	149	19	119	2022-07-14	Management
20	Aarav Jain	2001-02-15	aarav.jain@example.com	150	20	120	2022-08-28	Engineering
21	Vivaan Singh	2002-04-22	vivaan.singh@example.com	151	21	121	2022-09-15	Medicine
22	Aditya Gupta	2003-07-10	aditya.gupta@example.com	152	22	122	2022-10-22	Law
23	Vihaan Kumar	2000-09-05	vihaan.kumar@example.com	153	22 23	123	2022-11-10	Architecture
24	Arjun Patel	2001-12-18	arjun.patel@example.com sai.reddy@example.com	154	24	124	2022-12-05	Environmental Science
25	Sai Reddy	2002-03-30	sai.reddy@example.com	155	25	125	2023-01-18	Journalism
26	Reyansh Nair	2003-06-12	reyansh.nair@example.com	156	26	126	2023-02-27	Mass Communication
27 İ	Ayaan Iyer	2000-07-25	ayaan.iyer@example.com	157	27	127	2023-03-30	Fine Arts
28	Krishna Rao	2001-10-19	krishna.rao@example.com	158	28	128	2023-04-12	Performing Arts
29	Ishaan Mehta	2002-01-03	ishaan.mehta@example.com	159	29	129	2023-05-19	Graphic Design
30 i	Kabir Joshi	2003-04-14	kabir.joshi@example.com	160	30	130	2023-06-25	Animation
31 i	Arnav Das	2000-08-29	arnav.das@example.com	161	31	131	2023-07-10	Fashion Design
32	Atharv Chatterjee	2001-05-07	atharv.chatterjee@example.com	162	32	132	2023-08-05	Interior Design
33 i	Dhyey Mukherjee	2002-09-22	dhyey mukheriee@example.com	163	33 i	133	2023-09-22	Hotel Management
34 35	Aarush Roy	2003-02-10	aarush.roy@example.com rudra.bhattacharya@example.com	164 165	34	134	2023-10-17	Tourism
25 1	Rudra Bhattacharya	2000-06-18	rudra.bhattacharva@example.com	165	32 33 34 35	135	2023-11-14	Culinary Arts

2. Assume a university where students can enroll in various courses. Now, write

down a Natural JOIN query to retrieve the details.

Code:

SELECT

Student.StudentId,

Student.StudentName,

Student.BirthDate,

Student.Email,

Enrollment.EnrollmentId,

Enrollment.Courseld,

Enrollment.EnrollmentDate,

Enrollment.CourseName

FROM

Student

NATURAL JOIN

Enrollment:

Output:

```
SELECT
Student.StudentId,
Student.StudentName,
Student.BirthDate,
Student.Email,
Enrollment.EnrollmentId,
Enrollment.CourseId,
Enrollment.CourseName
FROM
Student
NATURAL JOIN
Enrollment;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               StudentId | StudentName
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BirthDate | Email
                                                                                                                                                                                                                                      Aarav Sharma
Aarav Sharma
Vivaan Singh
Vivaan Singh
Aditya Gupta
Aditya Gupta
Aditya Gupta
Vihaan Kumar
Vihaan Kumar
Vihaan Kumar
Vihaan Kumar
Arjun Patel
Avjaan Iyer
Avjaan Vasan
Ashir Joshi
Arnav Das
Atharv Chatterjee
Arush Roy
Aufura Bhattacharya
Advait Banerjee
Ayug Verma
Shiv Kapoor
Aarav Jain
Vivaan Singh
Aditya Gupta
Aditya Gupta
Aditya Gupta
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Management
NULL
Lengineering
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Lour
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Culinary Arts
70 rows in set (0.00 sec)
```

ChatGPT Exercise

Using ChatGPT generates SQL queries of the below problem.

Scenario 1: We have an "inventory" Table with the following

columns: ProductID, ProductName, StockQuantity, and "sales" Table with following columns: SaleID, ProductID(foreign key), SaleQuantity, SaleDate.Now you need to use full outer join to generate a report that includes all products in the inventory and their sales, displaying NULL values for products that haven't been sold. Generate the chatGPT

prompt for the above scenario.

Code:

-- Create inventory table

CREATE TABLE inventory (

ProductID INT PRIMARY KEY,

ProductName VARCHAR(100),

StockQuantity INT

);

Code:

-- Insert sample values into inventory table

INSERT INTO inventory (ProductID, ProductName, StockQuantity) VALUES

(1, 'Product A', 100),

```
(2, 'Product B', 150),
(3, 'Product C', 200),
```

(4, 'Product D', 250),

(5, 'Product E', 300),

(6, 'Product F', 350),

(7, 'Product G', 400),

(8, 'Product H', 450),

(9, 'Product I', 500),

(10, 'Product **J**', 550);

Output:

```
mysql> -- Create inventory table
mysql> CREATE TABLE inventory (
    -> ProductID INT PRIMARY KEY,
    -> ProductName VARCHAR(100),
    -> StockQuantity INT
    -> );
Query OK, 0 rows affected (0.05 sec)

mysql> -- Insert sample values into inventory table
mysql> INSERT INTO inventory (ProductID, ProductName, StockQuantity) VALUES
    -> (1, 'Product A', 100),
    -> (2, 'Product B', 150),
    -> (3, 'Product C', 200),
    -> (4, 'Product C', 200),
    -> (5, 'Product E', 300),
    -> (6, 'Product F', 350),
    -> (7, 'Product G', 400),
    -> (8, 'Product I', 500),
    -> (9, 'Product I', 500),
    -> (10, ```

#### Code:

-- Create sales table

CREATE TABLE sales (

SaleID INT PRIMARY KEY,

ProductID INT,

SaleQuantity INT,

SaleDate DATE,

FOREIGN KEY (ProductID) REFERENCES inventory(ProductID)
);

# Code:

-- Insert sample values into sales table

INSERT INTO sales (SaleID, ProductID, SaleQuantity, SaleDate) VALUES

(1, 1, 10, '2023-01-01'),

(2, 2, 20, '2023-01-02'),

(3, 3, 30, '2023-01-03'),

(4, 4, 40, '2023-01-04'),

(5, 5, 50, '2023-01-05'),

(6, 6, 60, '2023-01-06'),

(7, 7, 70, '2023-01-07'),

(8, 8, 80, '2023-01-08'),

(9, 9, 90, '2023-01-09'),

(10, 10, 100, '2023-01-10');

# Output:

## Code:

-- Query to generate report with FULL OUTER JOIN

## **SELECT**

inventory.ProductID,

inventory.ProductName,

inventory.StockQuantity,

sales.SaleID,

sales.SaleQuantity,

sales.SaleDate

**FROM** 

inventory

## LEFT JOIN

sales

ON

inventory.ProductID = sales.ProductID;

# Output:

```
mysql> SELECT
 inventory.ProductID,
inventory.ProductName,
inventory.StockQuantity,
sales.SaleID,
sales.SaleQuantity,
sales.SaleDate
 FROM
 -> inventory
-> RIGHT JOIN
-> sales
 -> ON
 inventory.ProductID = sales.ProductID;
 ProductID | ProductName | StockQuantity | SaleID |
 SaleQuantity |
 SaleDate
 2023-01-01
2023-01-02
2023-01-03
2023-01-04
2023-01-05
2023-01-06
2023-01-07
2023-01-08
2023-01-09
2023-01-10
 Product A
 10
20
30
40
50
60
70
80
90
 123456789
 150
200
250
300
350
 Product B
Product C
 Product
 Product
 Product
 Product
 400
 Product H
Product I
 450
 500
 Product I
Product J
 10
 550
 10
 100
10 rows in set (0.00 sec)
```

# Code:

## **SELECT**

inventory.ProductID,

inventory.ProductName,

inventory.StockQuantity,

sales.SaleID,

sales.SaleQuantity,

sales.SaleDate

**FROM** 

inventory

**RIGHT JOIN** 

sales

ON

inventory.ProductID = sales.ProductID;

# Output:

```
mysql> SELECT
 inventory.ProductID,
inventory.ProductName,
inventory.StockQuantity,
sales.SaleID,
sales.SaleQuantity,
sales.SaleDate
 FROM
 -> inventory
-> RIGHT JOIN
-> sales
 -> ON
 inventory.ProductID = sales.ProductID;
 SaleID
 ProductID |
 ProductName
 StockQuantity
 SaleQuantity 5 4 1
 SaleDate
 2023-01-01
2023-01-02
2023-01-03
2023-01-04
2023-01-05
2023-01-06
2023-01-07
2023-01-08
2023-01-09
 Product A
Product B
 100
150
200
250
300
350
 10
20
30
40
50
60
70
80
 123456789
 123456789
 Product C
 Product D
 Product
Product
 400
 Product G
 450
500
 Product
 Product
 90
 2023-01-10
 10
 Product J
 10
 100
10 rows in set (0.00 sec)
```