**Lab Assignment 1**

***Aim of the practical:***

Create table Customer

|  |  |
| --- | --- |
| Column\_name | Characteristics |
| SID | Primary key |
| Last\_name |  |
| First\_name |  |

Create table Orders

|  |  |
| --- | --- |
| Column\_name | Characteristics |
| Order\_ID | Primary key |
| Order\_date |  |
| Customer\_SID | Foreign key |
| Amount | Check>20000 |

# Create table Customer

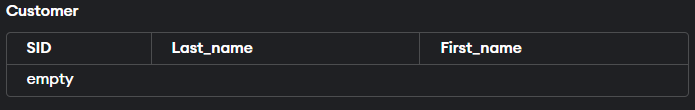
Create table Customer (

SID int primary key ,

Last\_name varchar(55),

First\_name varchar(50)

);



# Create table Orders

Create table Orders (

Order\_ID int primary key,

Order\_date date,

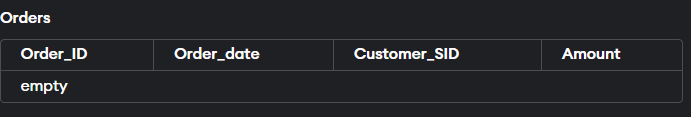
Customer\_SID int,

Amount decimal (10,2),

Check (Amount>20000),

Foreign key (customer\_SID) references Customer (SID)

);



**Lab Assignment 2**

Insert five records for each table

# Insert record in customer table

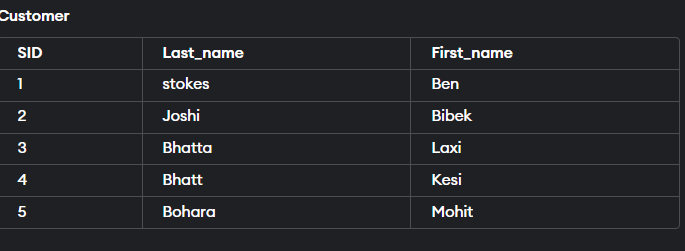
Insert into Customer values (1, “stokes”, “Ben”);

Insert into Customer values (2, “Joshi”, “Bibek”);

Insert into Customer values (3, “Bhatta”, “Laxi”);

Insert into Customer values (4, “Bhatt”, “Kesi”);

Insert into Customer values (5, “Bohara”, “Mohit”);



# Insert record in orders table

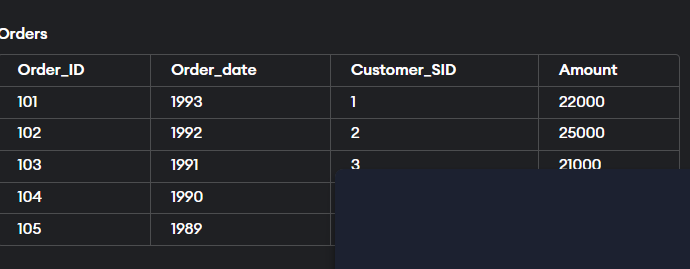
Insert into Orders values (101, 2024-10-21, 1, 22000);

Insert into Orders values (102, 2024-10-22, 2, 25000);

Insert into Orders values (103, 2024-10-23, 3, 21000);

Insert into Orders values (104, 2024-10-24, 4, 28000);

Insert into Orders values (105,2024-10-25, 5, 30000);



**Lab Assignment 3**

***Aim of the practical:***

List the details of the customer along with the amount

***Task to be done:***

Select Customer.SID,

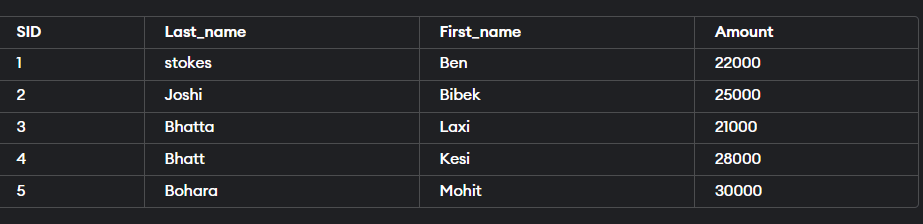
Customer.Last\_Name,

Customer.First\_Name,

Orders.Amount

From Customer

Join Orders on Customer.SID= Orders.Customer\_SID;

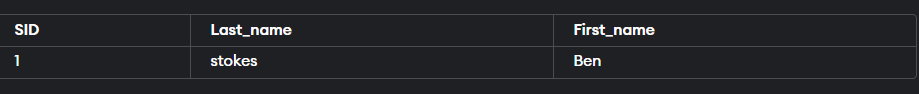


**Lab Assignment 4**

List the customers whose name ends with ‘s’ ***Task to be done:***

Select \* from Customer

Where Last\_Name like ‘%s’;



**Lab Assignment 5**

List the orders where amount is between 2100 and 30000;

Select \* from Orders

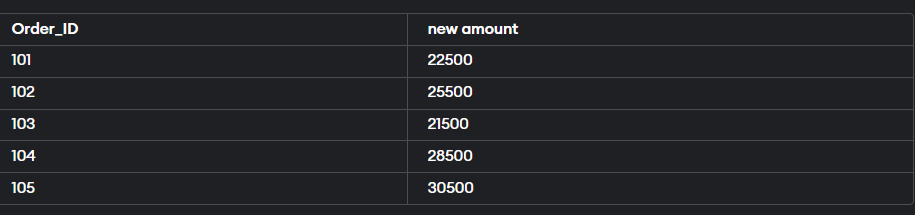
Where Amount between 21000 and 30000;



**Lab Assignment 6**

List the orders where amount is increased by 500 and replace with name ‘new amount’

Select Order\_ID, Amount + 500 AS “new amount”

From orders;

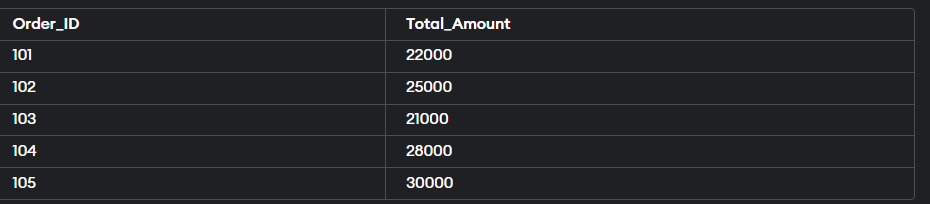
**Lab Assignment 7**

Display the order\_id and total amount of orders

Select Order\_ID, sum(Amount) as Total\_Amount

From Orders

Group By Order\_ID;



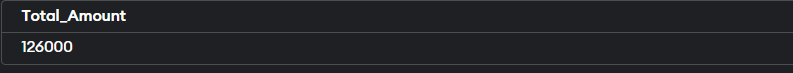
**Lab Assignment 8**

Calculate the total amount of orders that has more than 15000

Select sum(Amount) as Total\_Amount

From Orders

Where Amount > 15000;

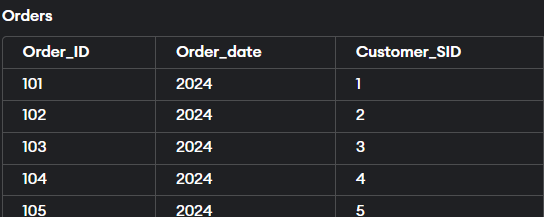


**Lab Assignment 9**

Q.Update table Orders

Update Orders

Set order\_date=2024;



**Lab Assignment 10**

Perform all join operations

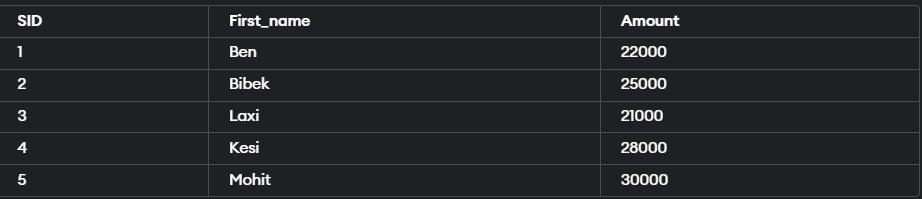
Select customer.sid,

Customer.first\_name,

Orders.amount

From Customer

Left join Orders on customer.sid=orders.customer\_sid;



**Lab Assignment 11**

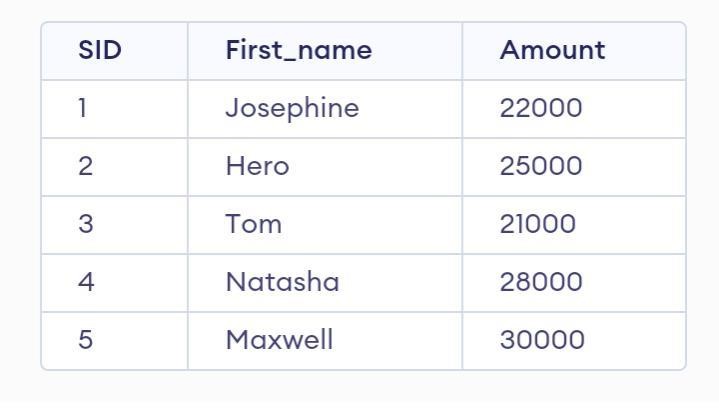
Select customer.sid,

Customer.first\_name

Orders.amount

From Customer

Right join Orders on customer.sid=orders.customer\_sid;



**Lab Assignment 12**

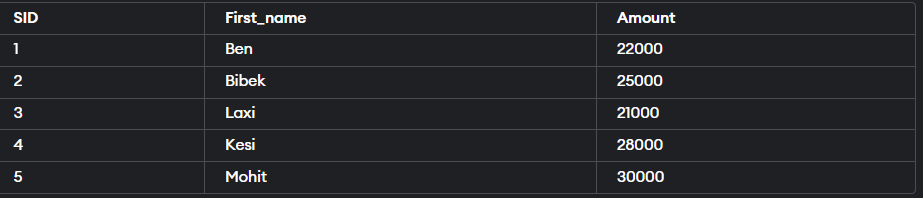
Select customer.sid,

Customer.first\_name,

Orders.amount

From Customer

Inner join Orders on customer.sid=orders.customer\_sid;



**Lab Assignment 13**

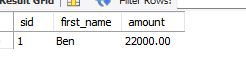
Select customer.sid,

Customer.first\_name,

Orders.amount

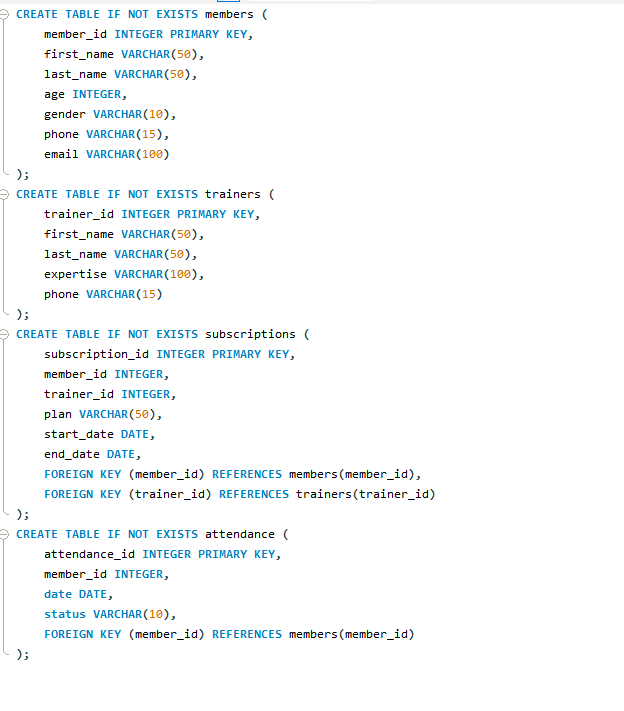
From Customer

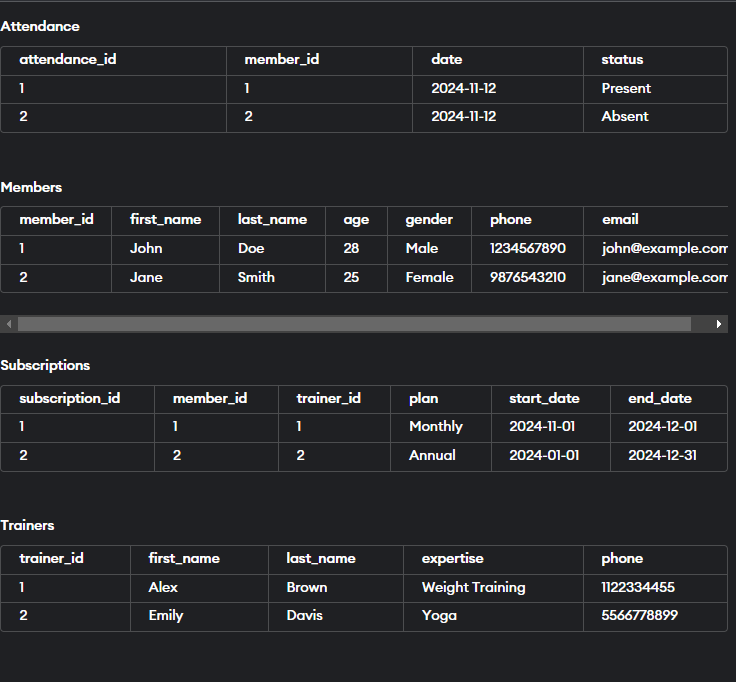
Outer join Orders on customer.sid=orders.customer\_sid;

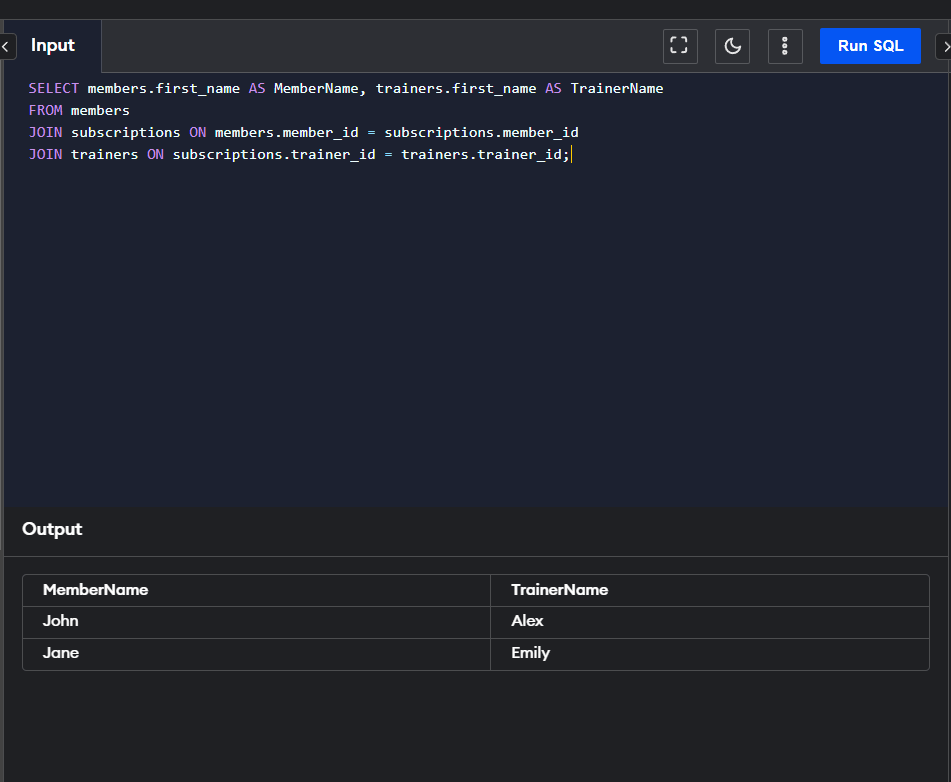
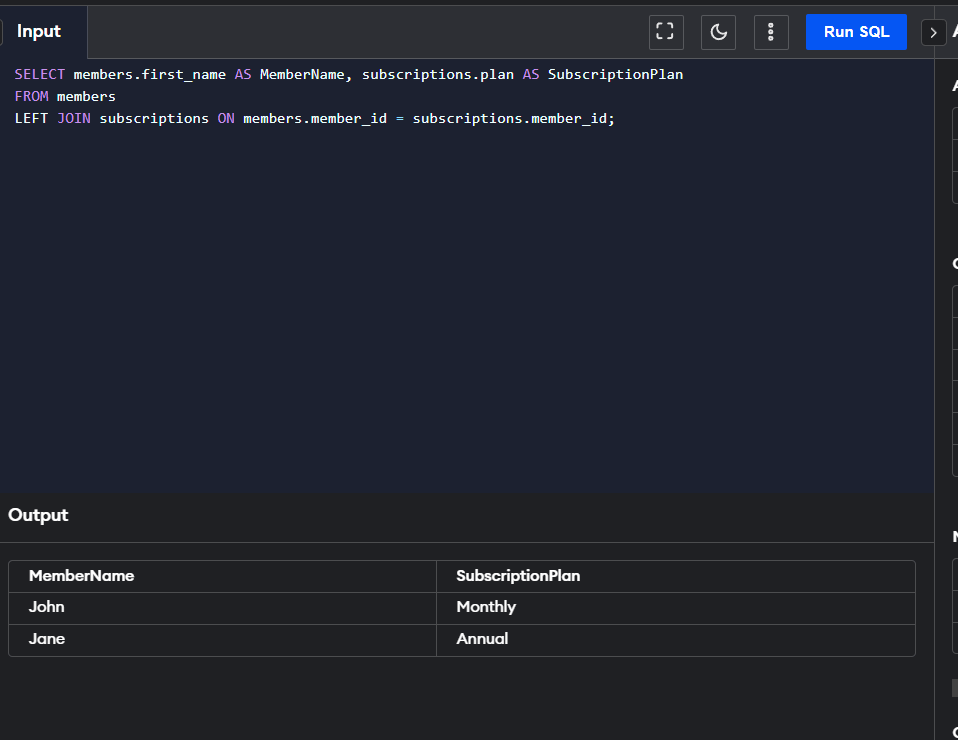


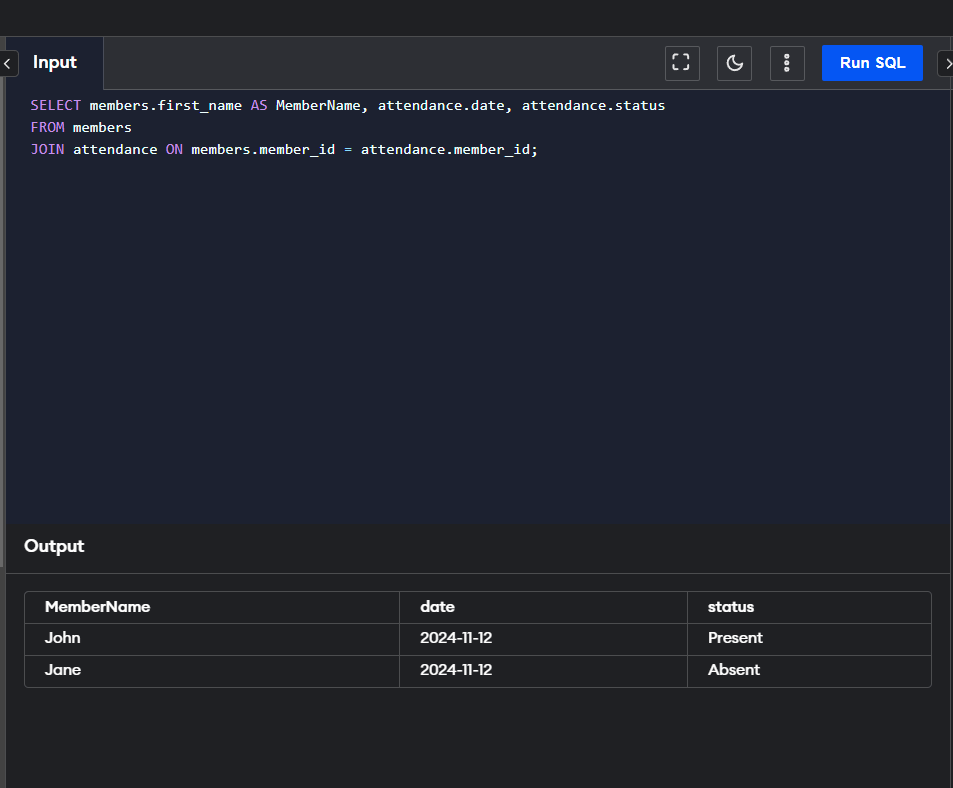
**Extra lab Assignment**

**Q.Create Database of Gym Management System is sql.**

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 **Using all JOIN operation of sql**

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| **S.No*.*** | **Date** | **Aim of experiment** | **Sign** | **Grade** |
| **1** |  | Create table Customer    Create table Orders |  |  |
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| **9** |  | Update table Orders |  |  |
| **10** |  | Perform all join operations |  |  |