

58. Evaluate boolean expression SQL schema

Code:

```
import pymysql

connection = pymysql.connect(
    host='localhost',
    user='yourusername',
    password='yourpassword',
    database='yourdatabase'
)

try:
    with connection.cursor() as cursor:
        create_table_query = """
        CREATE TABLE IF NOT EXISTS Employee (
            emp_id INT PRIMARY KEY,
            emp_name VARCHAR(100),
            emp_salary DECIMAL(10, 2),
            emp_age INT,
            emp_department VARCHAR(50)
        )
        """
        cursor.execute(create_table_query)

        insert_data_query = """
        INSERT INTO Employee (emp_id, emp_name, emp_salary, emp_age, emp_department)
        VALUES
        (1, 'John Doe', 50000.00, 35, 'HR'),
        (2, 'Jane Smith', 60000.00, 28, 'IT'),
        (3, 'Michael Johnson', 45000.00, 30, 'Finance'),
        (4, 'Emily Brown', 70000.00, 25, 'IT'),
        (5, 'David Lee', 55000.00, 32, 'Finance')
        """
        cursor.execute(insert_data_query)
        connection.commit()

        select_query = "SELECT * FROM Employee WHERE emp_age > 30"
        cursor.execute(select_query)
        results = cursor.fetchall()
        print("Employees with age greater than 30:")
        for row in results:
            print(row)

        print("\n")

        select_query = """
        SELECT * FROM Employee
        WHERE emp_age < 30 AND (emp_salary > 40000 OR emp_department = 'IT')
        """
        cursor.execute(select_query)
        results = cursor.fetchall()
        print("Employees with age less than 30 and (salary > 40000 or department is 'IT'):")
        for row in results:
            print(row)

finally:
    connection.close()
```

Output:

```
Traceback (most recent call last):
  File "C:\Users\Gautham Anil\Desktop\New folder\58..py", line 1, in <module>
    import pymysql
ModuleNotFoundError: No module named 'pymysql'
```

Time Complexity:

- $T(n) = O(n)$