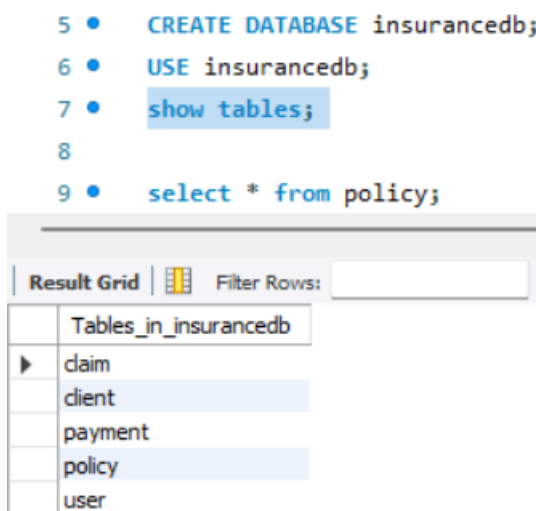


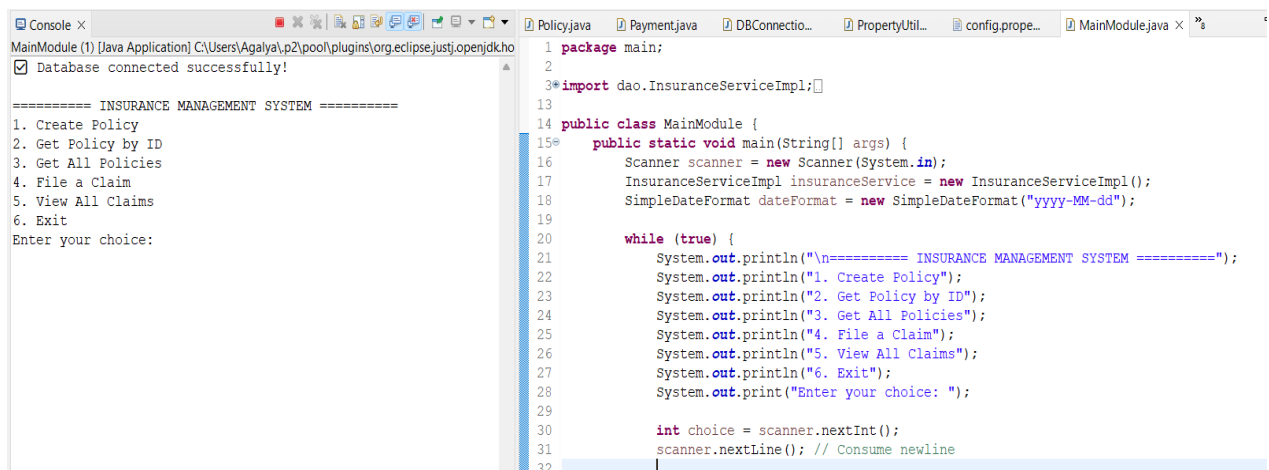
JAVA CODING CHALLENGE – INSURANCE MANAGEMENT SYSTEM

ScreenShots/Output:

1. Tables in “insurancedb” Database:



2. MainModule.java:



3. 1st Choice: Create Policy

```

MainModule (1) [Java Application] C:\Users\Agalya\p2\pool\plugins\org.eclipse.justi.openjdkhotspot100\jre\bin\java.exe
Database connected successfully!

===== INSURANCE MANAGEMENT SYSTEM =====
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Exit
Enter your choice: 1
Enter Policy ID: 1
Enter Policy Name: HealthCare Policy
Enter Premium Amount: 230000
[✓] Policy created successfully!

===== INSURANCE MANAGEMENT SYSTEM =====
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Exit

Policy.java
1 package main;
2
3 import dao.InsuranceServiceImpl;
13
14 public class MainModule {
15     public static void main(String[] args) {
16         Scanner scanner = new Scanner(System.in);
17         InsuranceServiceImpl insuranceService = new InsuranceServiceImpl();
18         SimpleDateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd");
19
20         while (true) {
21             System.out.println("\n===== INSURANCE MANAGEMENT SYSTEM =====");
22             System.out.println("1. Create Policy");
23             System.out.println("2. Get Policy by ID");
24             System.out.println("3. Get All Policies");
25             System.out.println("4. File a Claim");
26             System.out.println("5. View All Claims");
27             System.out.println("6. Exit");
28             System.out.print("Enter your choice: ");
29
30             int choice = scanner.nextInt();
31             scanner.nextLine(); // Consume newline
32

```

```

===== INSURANCE MANAGEMENT SYSTEM =====
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Exit
Enter your choice: 1
Enter Policy ID: 2
Enter Policy Name: Gold Policy
Enter Premium Amount: 130000
[✓] Policy created successfully!

===== INSURANCE MANAGEMENT SYSTEM =====
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Exit
Enter your choice: 1
Enter Policy ID: 3
Enter Policy Name: Employee Policy
Enter Premium Amount: 543200
[✓] Policy created successfully!

===== INSURANCE MANAGEMENT SYSTEM =====
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Exit
Enter your choice: 1
Enter Policy ID: 4
Enter Policy Name: Agriculture Policy
Enter Premium Amount: 200000
[✓] Policy created successfully!

```

⇒ Policies in the table:

```

5 • CREATE DATABASE insurancedb;
6 • USE insurancedb;
7 • show tables;
8
9 • select * from policy;
10
11

```

	policyId	policyName	premiumAmount
▶	1	HealthCare Policy	230000
	2	Gold Policy	130000
	3	Employee Policy	543200
	4	Agriculture Policy	200000
•	NULL	NULL	NULL

4. 2nd Choice: Get Policy by Id

MainModule (1) [Java Application] C:\Users\Agalya\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.fu

☒ Database connected successfully!

===== INSURANCE MANAGEMENT SYSTEM =====

1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Exit

Enter your choice: 2

Enter Policy ID to search: 3

☒ Policy Found: Policy{policyId=3, policyName='Employee Policy'}

===== INSURANCE MANAGEMENT SYSTEM =====

1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Exit

Enter your choice: 2

Enter Policy ID to search: 4

☒ Policy Found: Policy{policyId=4, policyName='Agriculture Policy'}

===== INSURANCE MANAGEMENT SYSTEM =====

1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Exit

Enter your choice: 2

Enter Policy ID to search: 1

☒ Policy Found: Policy{policyId=1, policyName='HealthCare Policy'}

5. 3rd Choice: Get all Policies

===== INSURANCE MANAGEMENT SYSTEM =====

1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Exit

Enter your choice: 3

☒ Available Policies:

Policy{policyId=1, policyName='HealthCare Policy'}

Policy{policyId=2, policyName='Gold Policy'}

Policy{policyId=3, policyName='Employee Policy'}

Policy{policyId=4, policyName='Agriculture Policy'}

6. 4th Choice: **File a Claim**

```
===== INSURANCE MANAGEMENT SYSTEM =====
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Exit
Enter your choice: 4
Enter Claim ID: 1
Enter Claim Number: 674531
Enter Claim Amount: 2430
Enter Claim Status: Medical Claim
Enter Date Filed (yyyy-MM-dd): 2025-03-21
Enter Policy ID Associated with Claim: 1
Enter Client ID Associated with Claim: 1
☒ Claim filed successfully!
```

```
===== INSURANCE MANAGEMENT SYSTEM =====
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Exit
Enter your choice: 4
Enter Claim ID: 2
Enter Claim Number: 745733
Enter Claim Amount: 13550
Enter Claim Status: Agri-raws
Enter Date Filed (yyyy-MM-dd): 2024-11-16
Enter Policy ID Associated with Claim: 4
Enter Client ID Associated with Claim: 3
☒ Claim filed successfully!
```

⇒ Claim informations in the table:

[illegible]

7. 5th Choice: View all claims

```

===== INSURANCE MANAGEMENT SYSTEM =====
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Exit
Enter your choice: 5
☒ Available Claims:
Claim{claimId=2, claimNumber='674531', status='Medical Claim', policyId=1, clientId=1}
Claim{claimId=3, claimNumber='745733', status='Agri-raws', policyId=4, clientId=3}

```

8. 6th Choice: Update the Policy

```

===== INSURANCE MANAGEMENT SYSTEM =====
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Update Policy
7. Exit
Enter your choice: 3
☒ Available Policies:
Policy{policyId=1, policyName='HealthCare Policy'}
Policy{policyId=2, policyName='Business Policy'}
Policy{policyId=3, policyName='Employee Policy'}
Policy{policyId=4, policyName='Agriculture Policy'}
Policy{policyId=5, policyName='Vehicle Policy'}

===== INSURANCE MANAGEMENT SYSTEM =====
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Update Policy
7. Exit
Enter your choice: 6
Enter Policy ID to update: 3
Enter New Policy Name: Educational Policy
Enter New Premium Amount: 300000
☒ Policy updated successfully!

```

⇒ Updated Policy details:

```
===== INSURANCE MANAGEMENT SYSTEM =====
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Update Policy
7. Exit
Enter your choice: 3
☒ Available Policies:
Policy{policyId=1, policyName='HealthCare Policy'}
Policy{policyId=2, policyName='Business Policy'}
Policy{policyId=3, policyName='Educational Policy'}
Policy{policyId=4, policyName='Agriculture Policy'}
Policy{policyId=5, policyName='Vehicle Policy'}
```

9. 7th Choice: Exit from the System

```
===== INSURANCE MANAGEMENT SYSTEM =====
1. Create Policy
2. Get Policy by ID
3. Get All Policies
4. File a Claim
5. View All Claims
6. Update Policy
7. Exit
Enter your choice: 7
🚀 Exiting Insurance Management System. Thank you!
```