```
2 * To change this license header, choose License Headers in Project Properties.
6 package it.uniroma1.msecs.ay2019.e3;
8 import java.sql.*;
17
18 /**
19 *
20 * @author biar
21 */
22 public class FlightListener implements MessageListener {
      private Connection connection;
24
      private TopicConnection jmsConnection;
25
      private final static Pattern statusPattern = Pattern.compile(".* : (.*)");
26
27
28
      public FlightListener() {
29
          try {
30
              Properties props = new Properties();
31
              props.setProperty(Context.INITIAL_CONTEXT_FACTORY,
  "org.apache.activemq.jndi.ActiveMQInitialContextFactory");
              props.setProperty(Context.PROVIDER_URL, "tcp://localhost:61616");
32
              Context ctx = new InitialContext(props);
33
34
35
              ConnectionFactory connectionFactory = (ConnectionFactory)ctx.lookup
  ("ConnectionFactory");
36
              jmsConnection = (TopicConnection)connectionFactory.createConnection();
37
              TopicSession session = (TopicSession) jmsConnection.createSession(false,
  Session.AUTO ACKNOWLEDGE);
38
39
              Destination destination = (Destination)ctx.lookup("dynamicTopics/Flights");
40
              TopicSubscriber subscriber = session.createSubscriber((Topic)destination);
41
              subscriber.setMessageListener(this);
42
43
              Class.forName("org.sqlite.JDBC");
          } catch (JMSException | NamingException | ClassNotFoundException err) {
44
45
              err.printStackTrace();
46
              System.exit(1);
47
          }
48
      }
49
50
51
      public void onMessage(Message msg) {
52
          try {
53
              String flight = msg.getStringProperty("flight");
54
              String text = ((TextMessage)msg).getText();
55
              Matcher matcher = statusPattern.matcher(text);
56
57
              if (matcher.find()) {
58
                  String status = matcher.group(1);
59
60
                  PreparedStatement statement = connection.prepareStatement("INSERT INTO
  flights VALUES(?, ?)");
61
                  statement.setQueryTimeout(30);
62
63
                  statement.setString(1, flight);
                  statement.setString(2, status);
64
65
                  statement.executeUpdate();
66
                  System.out.println(String.format("%s -> %s", flight, status));
67
68
              }
          } catch (JMSException | SQLException err) {
69
70
              err.printStackTrace();
```

95 } 96