





Name: - Nitin Sunil More
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Lab Exam

Q1

```
327
328     create database adv_java_lab_exam;
329
330 • use adv_java_lab_exam;
331
332 • create table mytable(
333     id int primary key auto_increment,
334     desc_ varchar(200),
335     postedDate date,
336     answer varchar(400),
337     status_ boolean
338 );
339
340 • show tables;
341
342 • desc mytable;
343
344 • insert into mytable(desc_, postedDate, answer, status_) values("Electrical Engineer", "2023-02-20", "yes", false);
345
346 • truncate mytable;
347
348 • select * from mytable;
349
350
351
```

```
348 • select * from mytable;
349
350
351
```

Result Grid					
Filter Rows: <input type="text"/>					
Edit:   					
Export/Import: 					
	id	desc_	postedDate	answer	status_
▶	1	Electrical Engineer	2023-02-20	yes	0
✱	NULL	NULL	NULL	NULL	NULL

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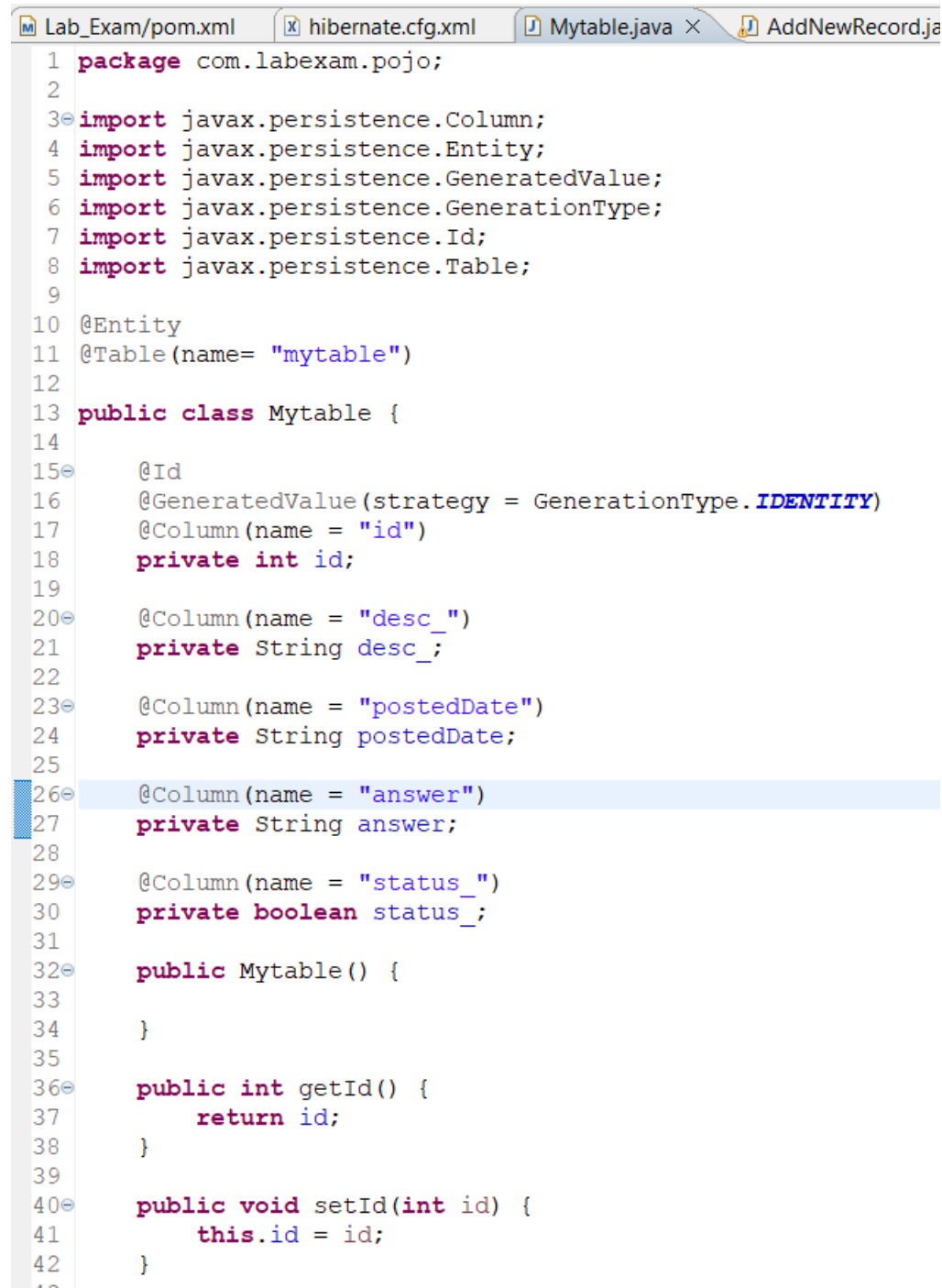
```
Lab_Exam/pom.xml x hibernate.cfg.xml Mytable.java AddNewRecord.j
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:x
2   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 ht
3   <modelVersion>4.0.0</modelVersion>
4   <groupId>Lab_Exam</groupId>
5   <artifactId>Lab_Exam</artifactId>
6   <packaging>war</packaging>
7   <version>0.0.1-SNAPSHOT</version>
8   <name>Lab_Exam Maven Webapp</name>
9   <url>http://maven.apache.org</url>
10  <dependencies>
11
12    <dependency>
13      <groupId>junit</groupId>
14      <artifactId>junit</artifactId>
15      <version>3.8.1</version>
16      <scope>test</scope>
17    </dependency>
18
19    <dependency>
20      <groupId>mysql</groupId>
21      <artifactId>mysql-connector-java</artifactId>
22      <version>8.0.17</version>
23    </dependency>
24
25    <dependency>
26      <groupId>org.hibernate</groupId>
27      <artifactId>hibernate-core</artifactId>
28      <version>4.3.6.Final</version>
29    </dependency>
30
31  </dependencies>
32  <build>
33    <finalName>Lab_Exam</finalName>
34  </build>
35 </project>
36
```

```
Lab_Exam/pom.xml x hibernate.cfg.xml x Mytable.java AddNewRecord.java
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE hibernate-configuration PUBLIC
3   "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
4   "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
5
6 <hibernate-configuration>
7   <session-factory>
8     <property name="hibernate.connection.driver_class">com.mysql.cj.jdbc.Driver</property>
9     <property name="hibernate.connection.url">jdbc:mysql://localhost:3306/adv_java_lab_exam?useSSL=false</property>
10    <property name="hibernate.connection.username">root</property>
11    <property name="hibernate.connection.password">7039439101</property>
12    <property name="hibernate.dialect">org.hibernate.dialect.MySQLDialect</property>
13    <property name="hibernate.hbm2ddl.auto">update</property>
14    <property name="hibernate.show_sql">true</property>
15    <mapping class="com.labexam.pojo.Mytable"/>
16  </session-factory>
17 </hibernate-configuration>
```

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POJO Class



```
1 package com.labexam.pojo;
2
3 import javax.persistence.Column;
4 import javax.persistence.Entity;
5 import javax.persistence.GeneratedValue;
6 import javax.persistence.GenerationType;
7 import javax.persistence.Id;
8 import javax.persistence.Table;
9
10 @Entity
11 @Table(name= "mytable")
12
13 public class Mytable {
14
15     @Id
16     @GeneratedValue(strategy = GenerationType.IDENTITY)
17     @Column(name = "id")
18     private int id;
19
20     @Column(name = "desc_")
21     private String desc_;
22
23     @Column(name = "postedDate")
24     private String postedDate;
25
26     @Column(name = "answer")
27     private String answer;
28
29     @Column(name = "status_")
30     private boolean status_;
31
32     public Mytable() {
33
34     }
35
36     public int getId() {
37         return id;
38     }
39
40     public void setId(int id) {
41         this.id = id;
42     }
43 }
```

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```
Lab_Exam/pom.xml  hibernate.cfg.xml  Mytable.java ×  AddNewRecord.java
40 public void setId(int id) {
41     this.id = id;
42 }
43
44 public String getDesc_() {
45     return desc_;
46 }
47
48 public void setDesc_(String desc_) {
49     this.desc_ = desc_;
50 }
51
52 public String getPostedDate() {
53     return postedDate;
54 }
55
56 public void setPostedDate(String postedDate) {
57     this.postedDate = postedDate;
58 }
59
60 public String getAnswer() {
61     return answer;
62 }
63
64 public void setAnswer(String answer) {
65     this.answer = answer;
66 }
67
68 public boolean isStatus_() {
69     return status_;
70 }
71
72 public void setStatus_(boolean status_) {
73     this.status_ = status_;
74 }
75
76 @Override
77 public String toString() {
78     return id + " : " + desc_ + " : " + postedDate + " : " + answer + " : " + status_;
79 }
80
81 }
```

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Save New Records

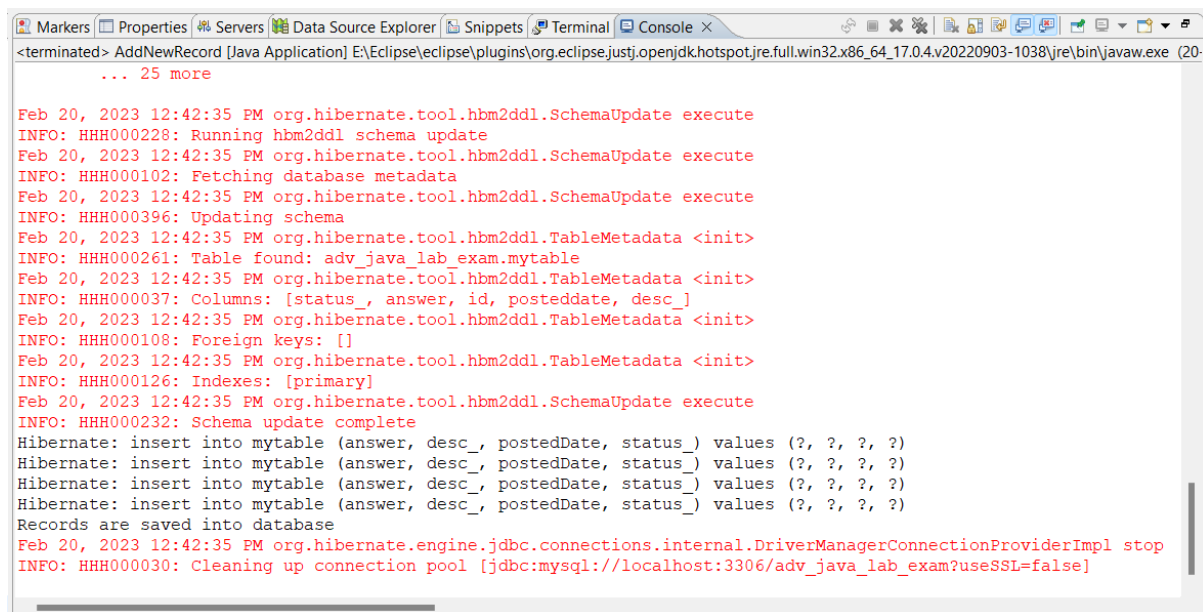


```
Lab_Exam/pom.xml | hibernate.cfg.xml | Mytable.java | AddNewRecord.java ×
1 package com.labexam.pojo;
2
3 import org.hibernate.Session;
4 import org.hibernate.SessionFactory;
5 import org.hibernate.Transaction;
6 import org.hibernate.cfg.Configuration;
7
8 import com.labexam.pojo.Mytable;
9
10 public class AddNewRecord {
11
12     public static void main(String[] args) {
13
14         Configuration config = new Configuration();
15         config.configure("hibernate.cfg.xml");
16
17         SessionFactory sf = config.buildSessionFactory();
18
19         Session s = sf.openSession();
20
21         Transaction tr = s.beginTransaction();
22
23         Mytable t1 = new Mytable();
24         t1.setDesc_("Mechanical Engineer");
25         t1.setPostedDate("2023-03-21");
26         t1.setAnswer("yes");
27         t1.setStatus_(true);
28
29         Mytable t2 = new Mytable();
30         t2.setDesc_("Software Engineer");
31         t2.setPostedDate("2023-04-22");
32         t2.setAnswer("no");
33         t2.setStatus_(false);
34
35         Mytable t3 = new Mytable();
36         t3.setDesc_("Database Engineer");
37         t3.setPostedDate("2023-05-23");
38         t3.setAnswer("yes");
39         t3.setStatus_(false);
40
41         Mytable t4 = new Mytable();
```

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```
39         t3.setStatus_(false);
40
41         Mytable t4 = new Mytable();
42         t4.setDesc_("Devops Engineer");
43         t4.setPostedDate("2023-06-24");
44         t4.setAnswer("no");
45         t4.setStatus_(true);
46
47         s.save(t1);
48         s.save(t2);
49         s.save(t3);
50         s.save(t4);
51
52         tr.commit();
53
54         System.out.println("Records are saved into database");
55
56         sf.close();
57     }
58 }
59
60 }
61
```



```
<terminated> AddNewRecord [Java Application] E:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe (20-
... 25 more




Feb 20, 2023 12:42:35 PM org.hibernate.tool.hbm2ddl.SchemaUpdate execute
INFO: HHH000228: Running hbm2ddl schema update
Feb 20, 2023 12:42:35 PM org.hibernate.tool.hbm2ddl.SchemaUpdate execute
INFO: HHH000102: Fetching database metadata
Feb 20, 2023 12:42:35 PM org.hibernate.tool.hbm2ddl.SchemaUpdate execute
INFO: HHH000396: Updating schema
Feb 20, 2023 12:42:35 PM org.hibernate.tool.hbm2ddl.TableMetadata <init>
INFO: HHH000261: Table found: adv_java_lab_exam.mytable
Feb 20, 2023 12:42:35 PM org.hibernate.tool.hbm2ddl.TableMetadata <init>
INFO: HHH000037: Columns: [status_, answer, id, posteddate, desc_]
Feb 20, 2023 12:42:35 PM org.hibernate.tool.hbm2ddl.TableMetadata <init>
INFO: HHH000108: Foreign keys: []
Feb 20, 2023 12:42:35 PM org.hibernate.tool.hbm2ddl.TableMetadata <init>
INFO: HHH000126: Indexes: [primary]
Feb 20, 2023 12:42:35 PM org.hibernate.tool.hbm2ddl.SchemaUpdate execute
INFO: HHH000232: Schema update complete
Hibernate: insert into mytable (answer, desc_, postedDate, status_) values (?, ?, ?, ?)
Hibernate: insert into mytable (answer, desc_, postedDate, status_) values (?, ?, ?, ?)
Hibernate: insert into mytable (answer, desc_, postedDate, status_) values (?, ?, ?, ?)
Hibernate: insert into mytable (answer, desc_, postedDate, status_) values (?, ?, ?, ?)
Records are saved into database
Feb 20, 2023 12:42:35 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl stop
INFO: HHH000030: Cleaning up connection pool [jdbc:mysql://localhost:3306/adv_java_lab_exam?useSSL=false]
```

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347

348 • `select * from mytable;`

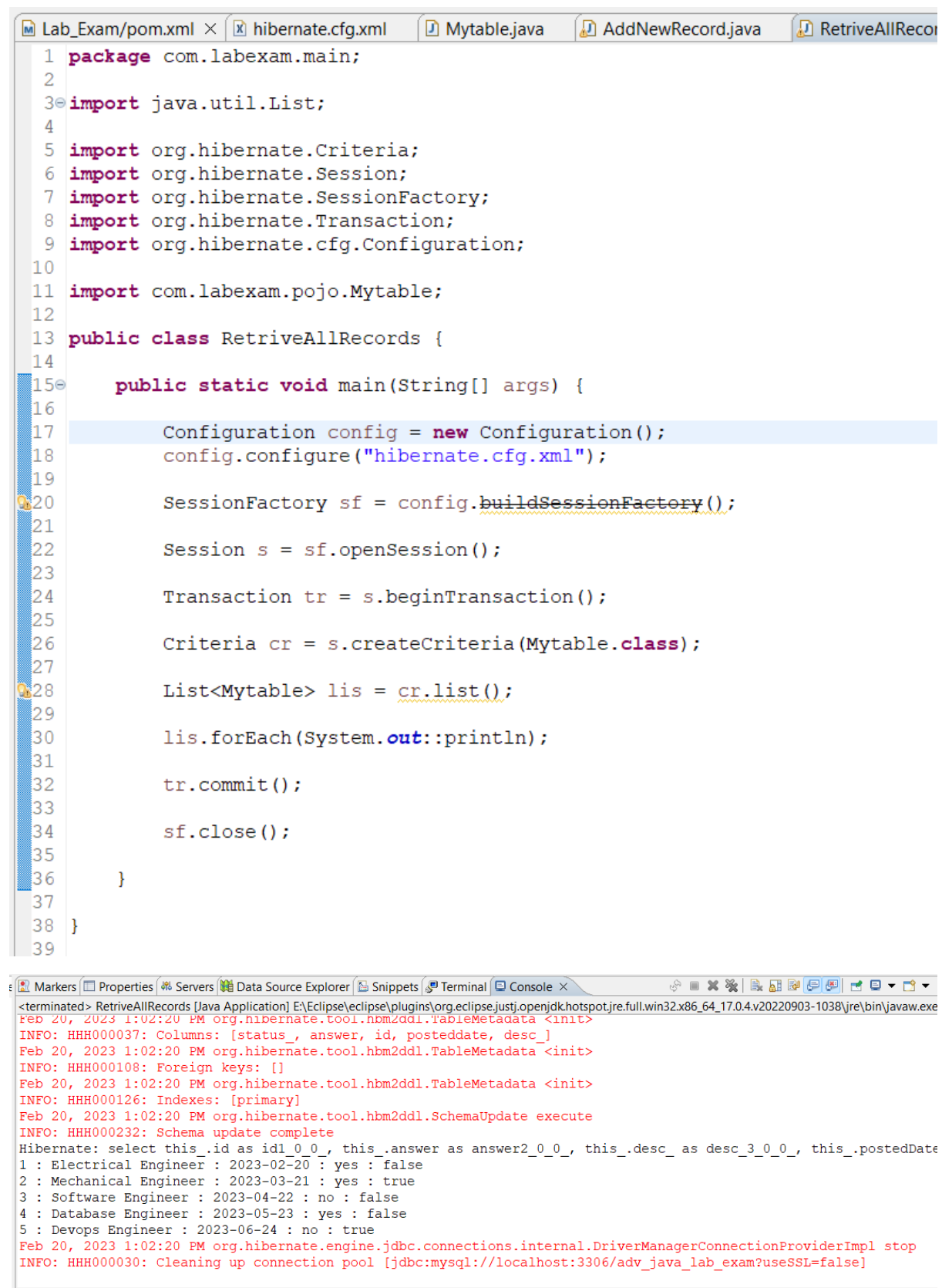
Result Grid					
		Filter Rows:	Edit:   		
	id	desc_	postedDate	answer	status_
▶	1	Electrical Engineer	2023-02-20	yes	0
	2	Mechanical Engineer	2023-03-21	yes	1
	3	Software Engineer	2023-04-22	no	0
	4	Database Engineer	2023-05-23	yes	0
	5	Devops Engineer	2023-06-24	no	1
•	NULL	NULL	NULL	NULL	NULL

mytable 11

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Retrieve All Records



```
1 package com.labexam.main;
2
3 import java.util.List;
4
5 import org.hibernate.Criteria;
6 import org.hibernate.Session;
7 import org.hibernate.SessionFactory;
8 import org.hibernate.Transaction;
9 import org.hibernate.cfg.Configuration;
10
11 import com.labexam.pojo.Mytable;
12
13 public class RetriveAllRecords {
14
15     public static void main(String[] args) {
16
17         Configuration config = new Configuration();
18         config.configure("hibernate.cfg.xml");
19
20         SessionFactory sf = config.buildSessionFactory();
21
22         Session s = sf.openSession();
23
24         Transaction tr = s.beginTransaction();
25
26         Criteria cr = s.createCriteria(Mytable.class);
27
28         List<Mytable> lis = cr.list();
29
30         lis.forEach(System.out::println);
31
32         tr.commit();
33
34         sf.close();
35
36     }
37
38 }
39
```

<terminated> RetriveAllRecords [Java Application] E:\Eclipse\workspace\lab_exam\RetriveAllRecords\bin\javaw.exe
Feb 20, 2023 1:02:20 PM org.hibernate.tool.hbm2ddl.TableMetadata <init>
INFO: HHH000037: Columns: [status_, answer, id, posteddate, desc_]
Feb 20, 2023 1:02:20 PM org.hibernate.tool.hbm2ddl.TableMetadata <init>
INFO: HHH000108: Foreign keys: []
Feb 20, 2023 1:02:20 PM org.hibernate.tool.hbm2ddl.TableMetadata <init>
INFO: HHH000126: Indexes: [primary]
Feb 20, 2023 1:02:20 PM org.hibernate.tool.hbm2ddl.SchemaUpdate execute
INFO: HHH000232: Schema update complete
Hibernate: select this_.id as id1_0_0_, this_.answer as answer2_0_0_, this_.desc_ as desc_3_0_0_, this_.postedDate
1 : Electrical Engineer : 2023-02-20 : yes : false
2 : Mechanical Engineer : 2023-03-21 : yes : true
3 : Software Engineer : 2023-04-22 : no : false
4 : Database Engineer : 2023-05-23 : yes : false
5 : Devops Engineer : 2023-06-24 : no : true
Feb 20, 2023 1:02:20 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl stop
INFO: HHH000030: Cleaning up connection pool [jdbc:mysql://localhost:3306/adv_java_lab_exam?useSSL=false]