

Hibernate 1

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Screenshots of Different Sections and Functionalities of Program

1. SCREENSHOT of Menu

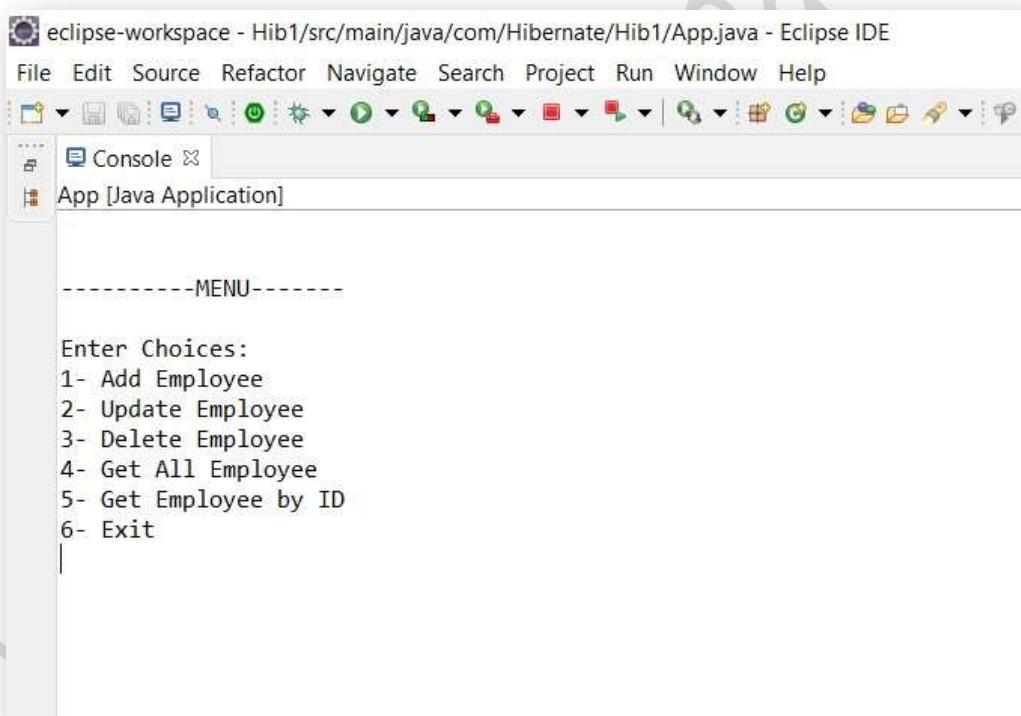


Figure 1 Showing Screenshot of Menu

2. SCREENSHOT of Add Employee Functionality

```
eclipse-workspace - Hib1/src/main/java/com/Hibernate/Hib1/App.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Console

App [Java Application] C:\Users\vishn\AppData\Local\Temp\eoij46CF.tmp\plugins\org.eclipse.jdt.core\src\com\Hibernate\Hib1\App.java
INFO: HHH10001003: Autocommit mode: false
Feb 25, 2021 12:09:17 AM org.hibernate.engine.jdbc.connections.internal
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Feb 25, 2021 12:09:17 AM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Feb 25, 2021 12:09:18 AM org.hibernate.engine.transaction.jta.platform.
INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engi

Give Details of New Employee
Enter First Name
John S
Enter Last Name
Doe
Enter Designation
HR Intern
Enter Date of Birth
01/02/1999
Enter Salary
700000
Enter ID
101
Enter Age
21
*****EMPLOYEE ADDED*****
-----MENU-----
Enter Choices:
1- Add Employee
2- Update Employee
3- Delete Employee
4- Get All Employee
5- Get Employee by ID
6- Exit
```

Figure 2 Showing Add Employee Functionality

3. SCREENSHOT of Select All Functionality

```
eclipse-workspace - Hib1/src/main/java/com/Hibernate/Hib1/App.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Console
App [Java Application] C:\Users\vishn\AppData\Local\Temp\eo146CF.tmp\plugins\org.eclipse.justj.openjdk.hotspot.jre.minimal.stripped.win32.x86_64_15
Feb 25, 2021 12:13:55 AM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl configure
WARN: HHH10001002: Using Hibernate built-in connection pool (not for production use!)
Feb 25, 2021 12:13:55 AM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001005: using driver [com.mysql.jdbc.Driver] at URL [jdbc:mysql://localhost:3306/hib]
Feb 25, 2021 12:13:55 AM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildExtractor
INFO: HHH10001001: Connection properties: {password=****, user=root}
Feb 25, 2021 12:13:55 AM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildPooledConnections
INFO: HHH10001003: Autocommit mode: false
Feb 25, 2021 12:13:55 AM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$PoolImpl <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Feb 25, 2021 12:13:55 AM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Feb 25, 2021 12:13:55 AM org.hibernate.engine.transaction.jta.platform.internal.JtaPlatformInitiator initiateService
INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]

-----Printing All Results-----
Employee: 1
Employee [id=101, fname=John M, lname=Doe, age=21, salary=700000, dob=01/02/1999, designation=HR Intern]
Employee: 2
Employee [id=653, fname=Vishnu, lname=Singh, age=0, salary=800000, dob=09/07/1999, designation=Dev Intern]
Employee: 3
Employee [id=654, fname=Vanshu, lname=Sengar, age=0, salary=850000, dob=09/12/1999, designation=Dev Intern]
Employee: 4
Employee [id=655, fname=Snigdha, lname=Das, age=23, salary=1100000, dob=20/06/1997, designation=FTE]

-----MENU-----
Enter Choices:
1- Add Employee
2- Update Employee
3- Delete Employee
4- Get All Employee
5- Get Employee by ID
6- Exit
```

Figure 3 Showing Select All Query

4. SCREENSHOT of Selection by ID functionality

```
java -jar target/Hib1-0.0.1-SNAPSHOT.jar - Using SessionFactory implementation: org.hibernate.engine.transaction.jta.platform.internal.JBossTxnPlatformManager
Enter ID whose records to be fetched
101
|
FETCHING RECORD....
Employee [id=101, fname=John M, lname=Doe, age=21, salary=700000, dob=01/02/1999, designation=HR Intern]

-----MENU-----
Enter Choices:
1- Add Employee
2- Update Employee
3- Delete Employee
4- Get All Employee
5- Get Employee by ID
6- Exit
```

Figure 4 Showing fetching of specific record

5. SCREENSHOT of Delete Record Functionality

```
eclipse-workspace - Hib1/src/main/java/com/Hibernate/Hib1
File Edit Source Refactor Navigate Search Project Run
Console
App [Java Application] C:\Users\vishn\AppData\Local\Temp\
1- Add Employee
2- Update Employee
3- Delete Employee
4- Get All Employee
5- Get Employee by ID
6- Exit
3
Feb 25, 2021 12:15:22 AM org.hibernate.engine
WARN: HHH10001002: Using Hibernate built-in c
Feb 25, 2021 12:15:22 AM org.hibernate.engine
INFO: HHH10001005: using driver [com.mysql.jc
Feb 25, 2021 12:15:22 AM org.hibernate.engine
INFO: HHH10001001: Connection properties: {pa
Feb 25, 2021 12:15:22 AM org.hibernate.engine
INFO: HHH10001003: Autocommit mode: false
Feb 25, 2021 12:15:22 AM org.hibernate.engine
INFO: HHH000115: Hibernate connection pool si
Feb 25, 2021 12:15:22 AM org.hibernate.dialect
INFO: HHH000400: Using dialect: org.hibernate
Feb 25, 2021 12:15:22 AM org.hibernate.engine
INFO: HHH000490: Using JtaPlatform implementa

Enter ID to delete
101
*****RECORD DELETED*****
```

Figure 5 Showing Delete Query

6. SCREENSHOT of Update Functionality (Updated FirstName)

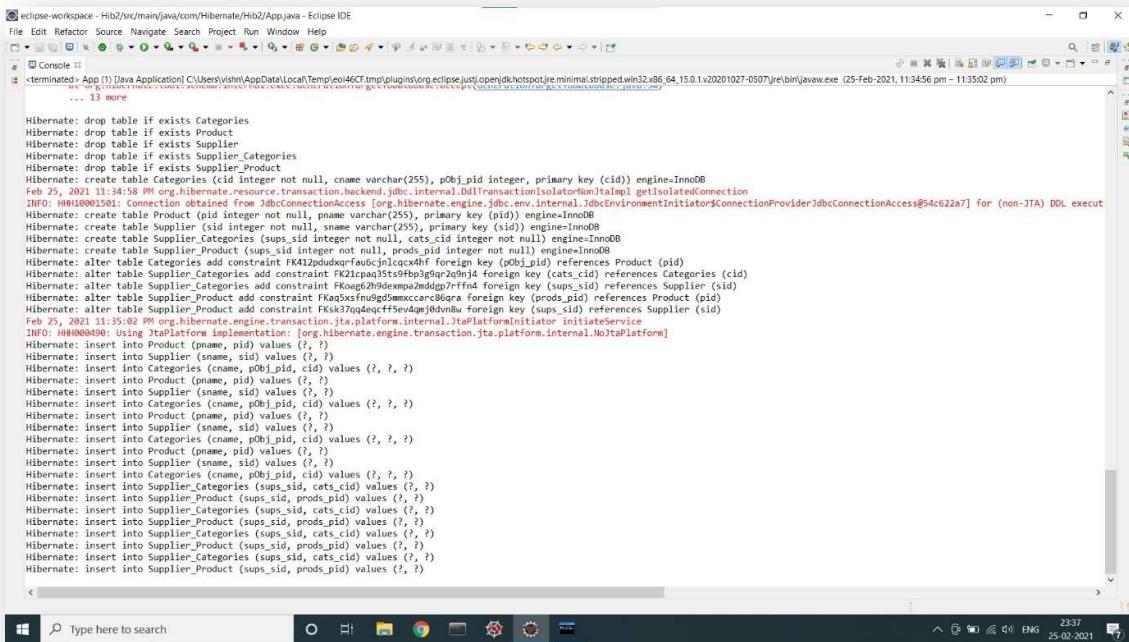
```
eclipse-workspace - Hib1/src/main/java/com/Hibernate/Hib1/App.java - Eclipse IDE for Java Developers
File Edit Source Refactor Navigate Search Project Run Window Help
Console
App [Java Application] C:\Users\vishn\AppData\Local\Temp\eoI46CF.tmp\plugins\org.hibernate.orm_5.4.1.Final-e0146cf.jar
Feb 25, 2021 12:12:32 AM org.hibernate.engine.jdbc.connection.ConnectionInfo: HHH10001001: Connection properties: {password=****, user=john}
Feb 25, 2021 12:12:32 AM org.hibernate.engine.jdbc.connection.ConnectionInfo: HHH10001003: Autocommit mode: false
Feb 25, 2021 12:12:32 AM org.hibernate.engine.jdbc.connection.ConnectionInfo: HHH000115: Hibernate connection pool size: 20 (min=1)
Feb 25, 2021 12:12:32 AM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Feb 25, 2021 12:12:32 AM org.hibernate.engine.transaction.jta.JtaPlatform implementation: [org.hibernate.transaction.JtaPlatform]
INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.transaction.JtaPlatform]

Enter the ID to update
101
Enter Attribute to update:
1- ID
2- First Name
3- Last Name
4- DOB
5- Designation
6- Salary
7- Age
2
Enter New First Name
John M
*****FIRST NAME UPDATED*****
-----MENU-----
Enter Choices:
1- Add Employee
2- Update Employee
3- Delete Employee
4- Get All Employee
5- Get Employee by ID
6- Exit
```

Figure 6 Showing Update query updating first name

Hibernate 2

1. SCREENSHOT Showing Hibernate Inserting Values



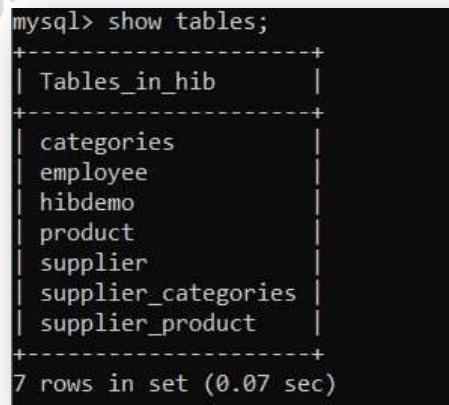
The screenshot shows the Eclipse IDE interface with the 'Console' tab selected. The output window displays the following log entries:

```
eclipse-workspace - Hib2/src/main/java/com/Hibernate/Hib2/App.java - Eclipse IDE
File Edit Refactor Source Navigate Search Project Run Window Help
Console
<terminated> App [1] [Java Application] C:\Users\vishn\AppData\Local\Temp\ea46CF\temp\plugins\org.eclipse.jdt.core\open\jdk\hotspot\jre\minimal\stripped\win32-x86_64_15.0.1\20201027-0507\jre\bin\javaw.exe (25-Feb-2021, 11:34:56 pm - 11:35:02 pm)
... 13 more

Hibernate: drop table if exists Categories
Hibernate: drop table if exists Product
Hibernate: drop table if exists Supplier
Hibernate: drop table if exists Supplier_Categories
Hibernate: drop table if exists Supplier_Product
Hibernate: drop table if exists Categories_Supplier
Hibernate: drop table if exists Categories_Product
Hibernate: drop table if exists Supplier_Categories
Hibernate: drop table if exists Supplier_Product
Feb 25, 2021 11:34:58 PM org.hibernate.resource.transaction.backend.jdbc.internal.JdbcTransactionIsolationControlImpl getIsolatedConnection
INFO: HHH010001501: Connection obtained from JdbcConnectionAccess [org.hibernate.engine.jdbc.env.internal.JdbcEnvironmentInitiator$ConnectionProvider$JdbcConnectionAccess@54c622a7] for (non-JTA) DDL execution
Hibernate: create table Product (pid integer not null, pname varchar(255), primary key (pid)) engine=InnoDB
Hibernate: create table Supplier (sid integer not null, sname varchar(255), primary key (sid)) engine=InnoDB
Hibernate: create table Categories (cid integer not null, cname varchar(255), primary key (cid)) engine=InnoDB
Hibernate: create table Categories_Supplier (cats_cid integer not null, sups_sid integer not null, cats_cid integer not null) engine=InnoDB
Hibernate: create table Categories_Product (cats_cid integer not null, prods_pid integer not null) engine=InnoDB
Hibernate: alter table Categories add constraint FKAl2pdudwkfaudcjlccwchf foreign key (obj_pk) references Product (pid)
Hibernate: alter table Supplier_Categories add constraint FK2lpaas3tsfbp03gqr2o9n14 foreign key (cats.cid) references Categories (cid)
Hibernate: alter table Supplier_Categories add constraint FK2lpaas3tsfbp03gqr2o9n14 foreign key (sups.sid) references Supplier (sid)
Hibernate: alter table Supplier_Product add constraint FKaq9xsfrubgd5mxxcarc80qra foreign key (prods.pid) references Product (pid)
Hibernate: alter table Supplier_Product add constraint FKsk37qpdq4ffs4vqmjd0nsu foreign key (sups.sid) references Supplier (sid)
Feb 25, 2021 11:34:58 PM org.hibernate.transaction.JtaPlatformInitiator initiateService
INFO: HHH000400: Using JtaPlatform implementation: [org.hibernate.transaction.JtaPlatform$internal$NoJtaPlatform]
Hibernate: insert into Product (pname, pid) values (?, ?)
Hibernate: insert into Supplier (sname, sid) values (?, ?)
Hibernate: insert into Categories (cname, pobj_pk, cid) values (?, ?, ?)
Hibernate: insert into Product (pname, pid) values (?, ?)
Hibernate: insert into Supplier (sname, sid) values (?, ?)
Hibernate: insert into Categories (cname, pobj_pk, cid) values (?, ?, ?)
Hibernate: insert into Product (pname, pid) values (?, ?)
Hibernate: insert into Supplier (sname, sid) values (?, ?)
Hibernate: insert into Categories (cname, pobj_pk, cid) values (?, ?, ?)
Hibernate: insert into Product (pname, pid) values (?, ?)
Hibernate: insert into Supplier (sname, sid) values (?, ?)
Hibernate: insert into Categories (cname, pobj_pk, cid) values (?, ?, ?)
Hibernate: insert into Supplier (sname, sid) values (?, ?)
Hibernate: insert into Product (sups_sid, cats_cid) values (?, ?, ?)
Hibernate: insert into Supplier_Categories (sups_sid, cats_cid) values (?, ?, ?)
Hibernate: insert into Supplier_Product (sups_sid, prods_pk) values (?, ?, ?)
Hibernate: insert into Supplier_Categories (sups_sid, cats_cid) values (?, ?, ?)
Hibernate: insert into Supplier_Product (sups_sid, prods_pk) values (?, ?, ?)
Hibernate: insert into Supplier_Categories (sups_sid, cats_cid) values (?, ?, ?)
Hibernate: insert into Supplier_Product (sups_sid, prods_pk) values (?, ?, ?)
```

Figure 7 Showing Hibernate Inserting Values

2. SCREENSHOT Showing Tables Created by Hibernate



The screenshot shows the MySQL command-line interface with the following command and its output:

```
mysql> show tables;
+-----+
| Tables_in_hib |
+-----+
| categories   |
| employee     |
| hibdemo      |
| product      |
| supplier     |
| supplier_categories |
| supplier_product |
+-----+
7 rows in set (0.07 sec)
```

Figure 8 Showing Tables created by Hibernate

3. SCREENSHOT Showing One-To-Many join on Categories-Product

```
mysql> select * from categories;
+-----+-----+
| cid | cname      | pObj_pid |
+-----+-----+
| 1   | Customer 1 |     1    |
| 2   | Customer 2 |     2    |
| 3   | Customer 3 |     3    |
| 4   | Customer 4 |     4    |
+-----+-----+
4 rows in set (0.00 sec)
```

Figure 9 Showing Categories Table with One to Many

4. SCREENSHOT Showing Supplier-Product Table

```
mysql> select * from supplier_product;
+-----+
| sups_sid | prods_pid |
+-----+
| 1         |     1    |
| 2         |     2    |
| 3         |     3    |
| 4         |     4    |
+-----+
4 rows in set (0.00 sec)
```

Figure 10 Showing Supplier - Product Table

5. SCREENSHOT Showing Supplier-Categories Table

```
mysql> select * from supplier_categories;
+-----+-----+
| sups_sid | cats_cid |
+-----+-----+
|      1   |      1   |
|      2   |      2   |
|      3   |      3   |
|      4   |      4   |
+-----+-----+
4 rows in set (0.00 sec)
```

Figure 11 Showing Supplier Categories Table

6. SCREENSHOT Showing Product Table

```
mysql> select * from product;
+-----+-----+
| pid | pname   |
+-----+-----+
|    1 | Product 1 |
|    2 | Product 2 |
|    3 | Product 3 |
|    4 | Product 4 |
+-----+-----+
4 rows in set (0.00 sec)
```

Figure 12 Showing Product Table

7. SCREENSHOT Showing Supplier Table

```
mysql> select * from supplier;
+-----+-----+
| sid | sname   |
+-----+-----+
|    1 | Supplier 1 |
|    2 | Supplier 2 |
|    3 | Supplier 3 |
|    4 | Supplier 4 |
+-----+-----+
4 rows in set (0.00 sec)
```

Figure 13 Showing Supplier Table