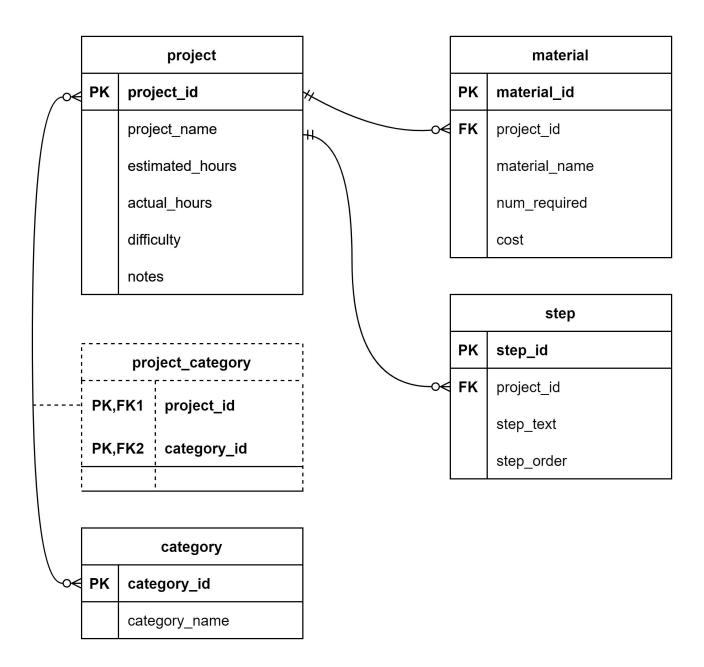
URL to GitHup Repository: https://github.com/aliustunyer/CRUD-Create-Read-Update-and-Delete-operations-on-MySQL.git

URL to Youtube Video: https://youtu.be/1yoITrq9rMY

Projects-schema.sql file:

```
DROP TABLE IF EXISTS material;
DROP TABLE IF EXISTS step;
DROP TABLE IF EXISTS project category;
DROP TABLE IF EXISTS category;
DROP TABLE IF EXISTS project;
CREATE TABLE project (
  project id INT AUTO INCREMENT NOT NULL,
  project name VARCHAR (128) NOT NULL,
  estimated hours DECIMAL (7,2),
  actual hours DECIMAL (7,2),
  difficulty INT,
 notes TEXT,
  PRIMARY KEY (project id)
);
CREATE TABLE category (
  category id INT AUTO_INCREMENT NOT NULL,
  category name VARCHAR (128) NOT NULL,
 PRIMARY KEY (category id)
);
CREATE TABLE project category (
  project id INT NOT NULL,
  category id INT NOT NULL,
  FOREIGN KEY (project id) REFERENCES project (project id) ON DELETE CASCADE,
  FOREIGN KEY (category id) REFERENCES category (category id) ON DELETE CASCADE,
  UNIQUE KEY (project id, category id)
);
CREATE TABLE step (
  step id INT AUTO INCREMENT NOT NULL,
  project id INT NOT NULL,
 step text TEXT NOT NULL,
 step order INT NOT NULL,
  PRIMARY KEY (step id),
  FOREIGN KEY (project id) REFERENCES project (project id) ON DELETE CASCADE
);
CREATE TABLE material (
  material id INT AUTO INCREMENT NOT NULL,
  project id INT NOT NULL,
  material name VARCHAR(128) NOT NULL,
  num required INT,
  cost DECIMAL(7, 2),
  PRIMARY KEY (material id),
  FOREIGN KEY (project id) REFERENCES project (project id) ON DELETE CASCADE
  );
```

ERD;



```
Main Class (ProjectApp)
package projects;
import projects.dao.DbConnection;
public class ProjectsApp {
       public static void main(String[] args) {
              DbConnection.getConnection();
       }
}
Class (Db Connection)
package projects.dao;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import projects.exception.DbException;
public class DbConnection {
       private static final String HOST = "localhost";
       private static final String PASSWORD = "projects";
       private static final int PORT = 3306;
       private static final String SCHEMA = "projects";
       private static final String USER = "projects";
       public static Connection getConnection() {
              String url = String.format("jdbc:mysql://%s:%d/%s?user=%s&password=
%s&useSSL=false", HOST, PORT, SCHEMA, USER,
                            PASSWORD);
              System.out.println("Connecting with url =" + url);
              try {
                     Connection conn =DriverManager.getConnection(url);
```

```
System.out.println("Successfully obtained connection!");
                     return conn;
              } catch (SQLException e) {
                     throw new DbException(e);
              }
       }
}
Class (Db Connection)
package projects.exception;
@SuppressWarnings("serial")
public class DbException extends RuntimeException {
       public DbException() {
       }
       public DbException(String message) {
              super(message);
       }
       public DbException(Throwable cause) {
              super(cause);
       }
       public DbException(String message, Throwable cause) {
              super(message, cause);
       }
}
```

pom.xml

```
project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-
4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>
 <groupId>com.promineotech</groupId>
 <artifactId>mysql-java</artifactId>
 <version>0.0.1-SNAPSHOT</version>
 properties>
<java.version>17</java.version>
</properties>
<dependencies>
      <dependency>
             <groupId>com.mysql</groupId>
             <artifactId>mysql-connector-j</artifactId>
             <version>8.0.32</version>
      </dependency>
</dependencies>
<build>
  <pluginManagement>
   <plugins>
    <plu><plugin>
     <groupId>org.apache.maven.plugins</groupId>
     <artifactId>maven-compiler-plugin</artifactId>
     <version>3.10.1</version>
     <configuration>
                     <source>${java.version}</source>
                     <target>${java.version}</target>
     </configuration>
    </plugin>
   </plugins>
  </pluginManagement>
 </build>
</project>
```