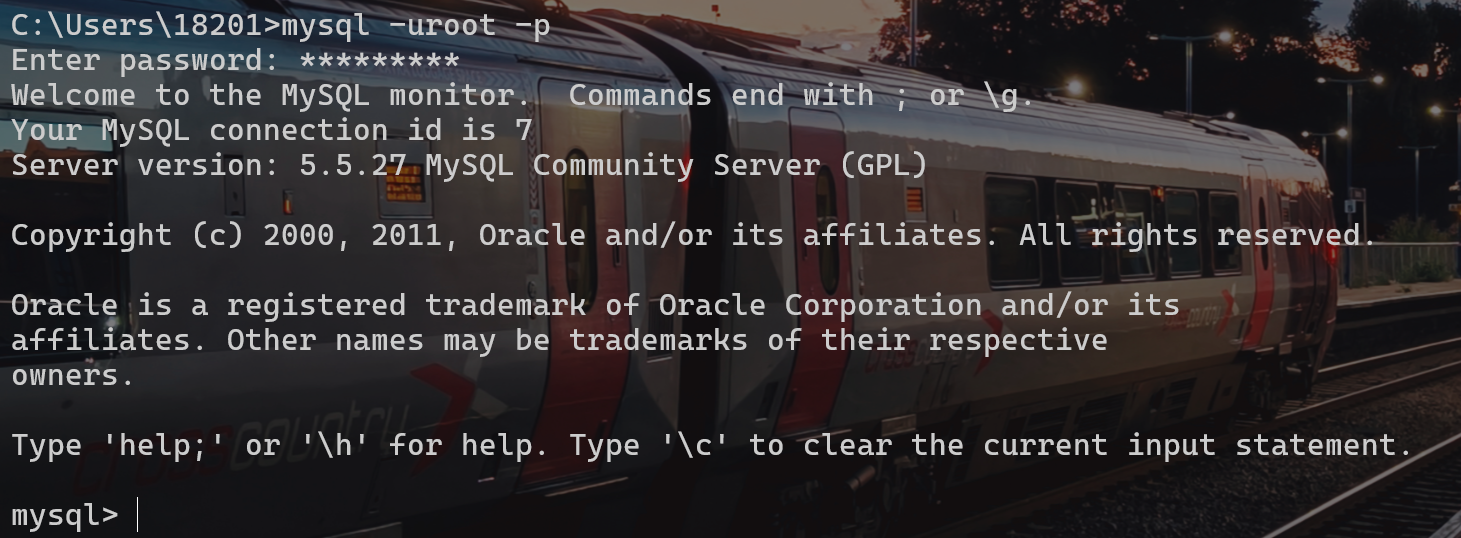
数据库相关

1. oracle mysql

a 下载mysql



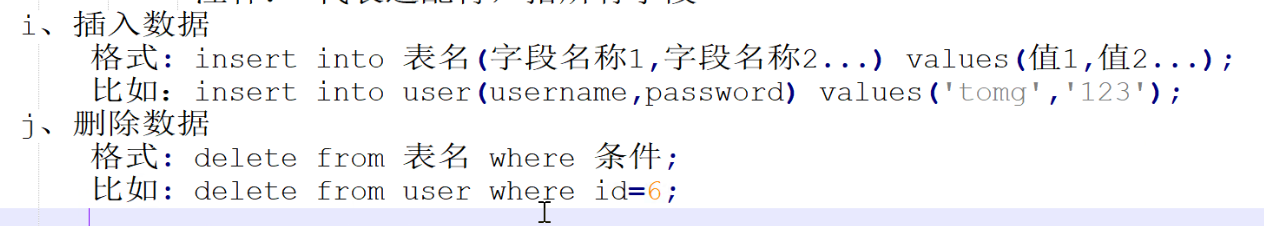
-u指的是user name，-p指的是密码，root指的是用户名称

显示数据库：show databases；

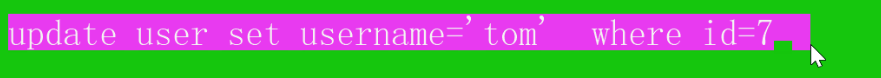
选择数据库：use 数据库名称；

显示数据库中所有表：show tables；

查询表数据：select 字段名 from 表名；

显示表数据结构：Desc +表名

修改：update 表名 set 字段名=值where 条件



创建数据库 create database 数据库名

创建表 create table 表名（字段名 字段类型）；

使用java代码操作mysql

加载数据库驱动：

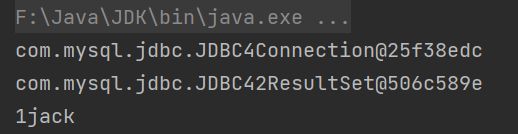
获取执行sql语句的指令对象：url->jdbc:mysql://localhost:3306/shy582546

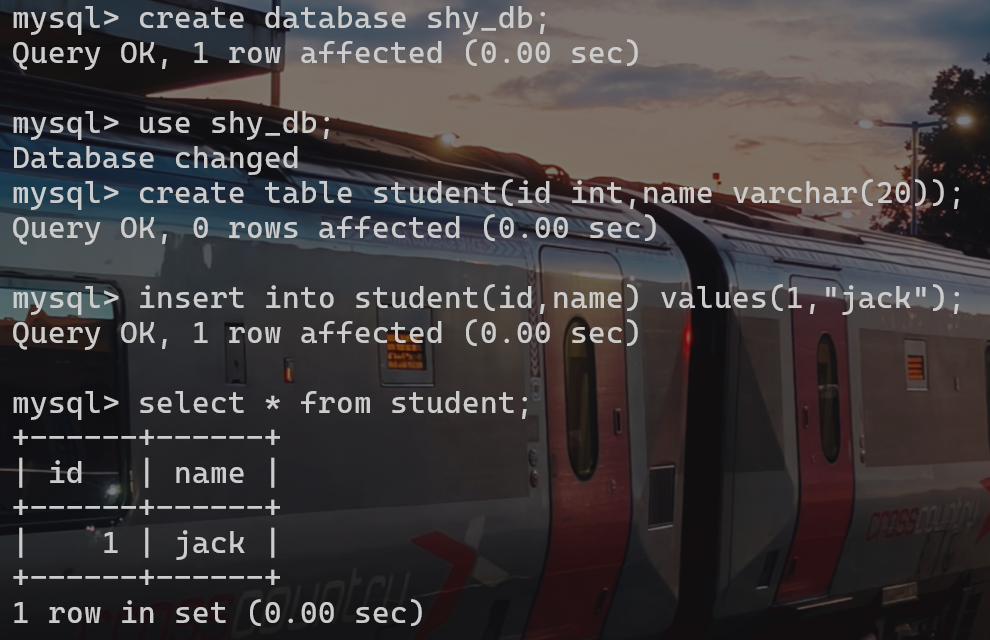
执行sql指令：

获取查询返回值：

遍历输出查询结果：

package jdbcdemo;  
  
import java.sql.\*;  
  
public class DbjdbcDemo {  
 public static void main(String[] args) throws ClassNotFoundException, SQLException {  
 Class.*forName*("com.mysql.jdbc.Driver");  
 String ur1 = "jdbc:mysql://localhost:3306/shy\_db";  
 String username = "root";  
 String password = "shy582546";  
 Connection conn = DriverManager.*getConnection*(ur1,username,password);;  
 System.*out*.println(conn);  
 Statement state= conn.createStatement();  
 String select\_sql= "select \* from student";  
 ResultSet rs= state.executeQuery(select\_sql);  
 System.*out*.println(rs);  
 while(rs.next())  
 {  
 System.*out*.println(rs.getString("id")+rs.getString("name"));  
 }  
 }  
}





实现学生管理系统

Jdbc类：与数据库连接

package jdbcdemo;  
  
import java.sql.\*;  
import java.util.ArrayList;  
import java.util.Scanner;  
  
public class JdbcConnect {  
 public static String *ur1* = "jdbc:mysql://localhost:3306/shy\_db";  
 public static String *username* = "root";  
 public static String *password* = "shy582546";  
  
 static  
 {  
 Scanner s = new Scanner(System.*in*);  
  
 }  
 public static Connection getConn() throws ClassNotFoundException, SQLException  
 {  
 Class.*forName*("com.mysql.jdbc.Driver");  
 Connection conn = DriverManager.*getConnection*(JdbcConnect.*ur1*,JdbcConnect.*username*,JdbcConnect.*password*);;  
 return conn;  
 }  
  
 public void getList() throws ClassNotFoundException, SQLException  
 {  
 Connection conn=JdbcConnect.*getConn*();  
 Statement state= conn.createStatement();  
 String select\_sql= "select \* from student";  
 ResultSet rs= state.executeQuery(select\_sql);  
 System.*out*.printf("%-10s%-20s%n","id","name");  
 while(rs.next())  
 {  
 int uid=rs.getInt("id");  
 String name=rs.getString("name");  
 System.*out*.printf("%-10s%-20s%n",uid,name);  
 }  
 conn.close();  
 state.close();  
 }  
  
 public void getListById(int id) throws SQLException, ClassNotFoundException {  
 Connection conn=JdbcConnect.*getConn*();  
 Statement state=conn.createStatement();  
 String select\_sql= "select \* from student where id="+id;  
 ResultSet rs= state.executeQuery(select\_sql);  
 while(rs.next())  
 {  
 int uid=rs.getInt("id");  
 String name=rs.getString("name");  
 System.*out*.printf("%-10s%-20s%\n","id","name");  
 System.*out*.printf("%-10s%-20%\n",uid,name);  
 }  
 conn.close();  
 state.close();  
 }  
  
 public boolean deleteById(int id) throws SQLException, ClassNotFoundException {  
 Connection conn=JdbcConnect.*getConn*();  
 Statement state=conn.createStatement();  
 String select\_sql= "delete from student where id="+id;  
 int rowAffected = state.executeUpdate(select\_sql);  
 conn.close();  
 state.close();  
 if(rowAffected>0)  
 {  
 return true;  
 }  
 else  
 {  
 return false;  
 }  
 }  
  
 public boolean updateById(int uid, int id) throws SQLException, ClassNotFoundException {  
 Connection conn=JdbcConnect.*getConn*();  
 Statement state = conn.createStatement();  
 String select\_sql= "update student set id="+id+" where id="+uid;  
 int rowAffected = state.executeUpdate(select\_sql);  
 conn.close();  
 state.close();  
 if(rowAffected>0)  
 {  
 return true;  
 }  
 else  
 {  
 return false;  
 }  
 }  
  
 public boolean updateById(int uid, String name) throws SQLException, ClassNotFoundException {  
 Connection conn=JdbcConnect.*getConn*();  
 Statement state = conn.createStatement();  
 String select\_sql= "update student set name="+"\""+name+"\""+" where id="+uid;  
 int rowAffected = state.executeUpdate(select\_sql);  
 conn.close();  
 state.close();  
 if(rowAffected>0)  
 {  
 return true;  
 }  
 else  
 {  
 return false;  
 }  
 }  
  
 public void insert(int id,String name) throws SQLException, ClassNotFoundException {  
 Connection conn=JdbcConnect.*getConn*();  
 Statement state = conn.createStatement();  
 String select\_sql= "insert into student(id,name)"+"values("+id+","+"\""+name+"\""+")";  
 state.execute(select\_sql);  
 conn.close();  
 state.close();  
 }  
  
 public int getNum() throws SQLException, ClassNotFoundException {  
 Connection conn=JdbcConnect.*getConn*();  
 Statement state = conn.createStatement();  
 String select\_sql= "select count(\*) as num from student";  
 ResultSet rs= state.executeQuery(select\_sql);  
 int num=0;  
 while(rs.next())  
 {  
 num= rs.getInt("num");  
 }  
 return num;  
 }  
  
}

user类：即学生类

package jdbcdemo;  
  
public class User {  
 int id;  
 String name;  
  
 public int getId() {  
 return id;  
 }  
  
 public String getName() {  
 return name;  
 }  
  
 public void setId(int id) {  
 this.id = id;  
 }  
  
 public void setName(String name) {  
 this.name = name;  
 }  
}

管理系统：

package jdbcdemo;  
  
import Users.Student;  
  
import java.sql.\*;  
import java.util.ArrayList;  
import java.util.Scanner;  
  
public class DbjdbcDemo {  
 public static JdbcConnect *jd* = new JdbcConnect();  
 public static Scanner *sc* = new Scanner(System.*in*);  
  
 public static void main(String[] args) throws ClassNotFoundException, SQLException {  
 *make\_list*();  
 }  
  
 public static void make\_list() throws SQLException, ClassNotFoundException {  
 User u = new User();  
 System.*out*.println("Student management System working!");  
 System.*out*.println("1.add student");  
 System.*out*.println("2.remove student");  
 System.*out*.println("3.change student");  
 System.*out*.println("4.print list");  
 System.*out*.println("5.get numbers");  
 System.*out*.println("6.exit");  
 while(*sc*.hasNextInt())  
 {  
 int input = *sc*.nextInt();  
 if(input==6)  
 {  
 System.*out*.println("System stopped!");  
 break;  
 }  
 else  
 {  
 if(input==1)  
 {  
 System.*out*.println("Please type in the student's information(id,name) by enter");  
 int uid = *sc*.nextInt();  
 String name = *sc*.next();  
 *jd*.insert(uid,name);  
 System.*out*.println("Student has been added to the list!");  
 }  
 else if(input==2)  
 {  
 System.*out*.println("Please type in the student's id:");  
 int uid = *sc*.nextInt();  
 if(!*jd*.deleteById(uid))  
 {  
 System.*out*.println("This student does not exist!");  
 }  
 else  
 {  
 System.*out*.println("Student has been removed from the list!");  
 }  
 }  
 else if(input==3)  
 {  
 System.*out*.println("Please type in the student's id, and the new id and name:");  
 int uid = *sc*.nextInt();  
 int newid=*sc*.nextInt();  
 String newname=*sc*.next();  
 if(!*jd*.updateById(uid,newid))  
 {  
 System.*out*.println("This student does not exist!");  
  
 }  
 else if(!*jd*.updateById(newid,newname))  
 {  
 System.*out*.println("This student does not exist!");  
 }  
 else  
 {  
 System.*out*.println("Student's information has been changed!");  
 }  
 }  
 else if(input==4)  
 {  
 *jd*.getList();  
 }  
 else  
 {  
 if(*jd*.getNum()>1)  
 {  
 System.*out*.println("There are "+*jd*.getNum()+" students in the list!");  
 }  
 else if(*jd*.getNum()==1)  
 {  
 System.*out*.println("There is one student in the list!");  
 }  
 else  
 {  
 System.*out*.println("There is no student in the list!");  
 }  
 }  
 System.*out*.println("1.add student");  
 System.*out*.println("2.remove student");  
 System.*out*.println("3.change student");  
 System.*out*.println("4.print list");  
 System.*out*.println("5.get numbers");  
 System.*out*.println("6.exit");  
 }  
 }  
 }  
}