Министерство образования Республики Беларусь

Учреждение образования «Брестский государственный технический университет»

Кафедра ИИТ

Отчёт по лабораторной работе №3

Выполнил:

студент 3 курса

группы ПО-5

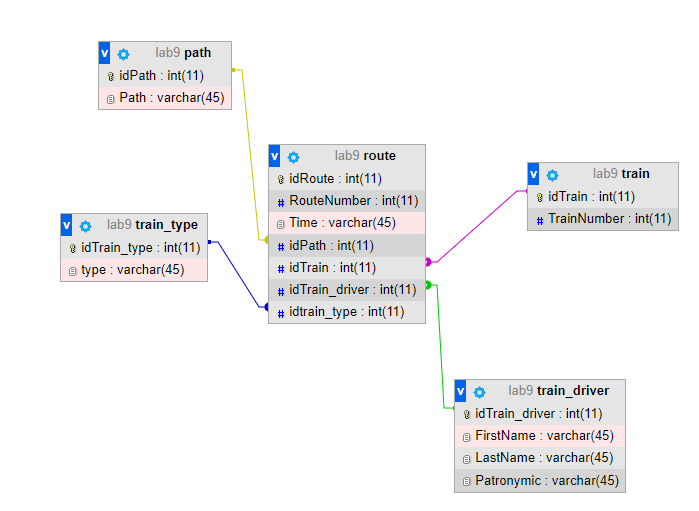
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Проверил:

Крощенко А. А.

Брест 2022

Структкра БД:



Таблицы:

CREATE TABLE `lab9`.`path` (

`idPath` INT NOT NULL AUTO\_INCREMENT,

`Path` VARCHAR(45) NOT NULL,

PRIMARY KEY (`idPath`));

CREATE TABLE `lab9`.`train` (

`idTrain` INT NOT NULL AUTO\_INCREMENT,

`TrainNumber` VARCHAR(45) NOT NULL,

PRIMARY KEY (`idTrain`));

CREATE TABLE `lab9`.`train\_driver` (

`idTrain\_driver` INT NOT NULL AUTO\_INCREMENT,

`FirstName` VARCHAR(45) NOT NULL,

`LastName` VARCHAR(45) NOT NULL,

`Patronymic` VARCHAR(45) NOT NULL,

PRIMARY KEY (`idTrain\_driver`));

CREATE TABLE `lab9`.`train\_type` (

`idTrain\_type` INT NOT NULL AUTO\_INCREMENT,

`type` VARCHAR(45) NOT NULL,

PRIMARY KEY (`idTrain\_type`));

CREATE TABLE `lab9`.`route` (

`idRoute` INT NOT NULL AUTO\_INCREMENT,

`RouteNumber` INT NOT NULL,

`Time` VARCHAR(45) NOT NULL,

`idPath` INT NOT NULL,

`idTrain` INT NOT NULL,

`idTrain\_driver` INT NOT NULL,

`idTrain\_type` INT NOT NULL,

PRIMARY KEY (`idRoute`),

INDEX `idPath\_idx` (`idPath` ASC) VISIBLE,

INDEX `idTrain\_idx` (`idTrain` ASC) VISIBLE,

INDEX `idTrain\_driver\_idx` (`idTrain\_driver` ASC) VISIBLE,

INDEX `idTrain\_type\_idx` (`idTrain\_type` ASC) VISIBLE,

CONSTRAINT `idPath`

FOREIGN KEY (`idPath`)

REFERENCES `lab9`.`path` (`idPath`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `idTrain`

FOREIGN KEY (`idTrain`)

REFERENCES `lab9`.`train` (`idTrain`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `idTrain\_driver`

FOREIGN KEY (`idTrain\_driver`)

REFERENCES `lab9`.`train\_driver` (`idTrain\_driver`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `idTrain\_type`

FOREIGN KEY (`idTrain\_type`)

REFERENCES `lab9`.`train\_type` (`idTrain\_type`)

ON DELETE NO ACTION

ON UPDATE NO ACTION);

Код программы:

package com.company;

import java.sql.\*;

public class Main {

public static final String userName = "root";

public static final String password = "root";

public static final String connectionURL = "jdbc:mysql://localhost:3306/mysql";

public static void main(String[] args) throws SQLException {

String query="INSERT INTO lab9.train\_driver (FirstName, LastName, Patronymic) VALUES ('Павел', 'Павлов','Павлович');";

String query2="DELETE FROM lab9.train\_driver WHERE (FirstName='Павел');";

String query3="UPDATE lab9.train\_driver SET FirstName='Василий',LastName='Васильев', Patronymic='Васильевич' WHERE (FirstName='Павел');";

String query4="SELECT \* FROM lab9.train\_driver;";

// String query22="INSERT INTO lab9.route (RouteNumber, Time,idPath, idTrain, idTrain\_driver,idTrain\_type ) VALUES ('444','29.03.2022','1','1','1','1');";

try(Connection connection = DriverManager.getConnection(connectionURL, userName, password)){

if(connection.isValid(30)){

Statement statement = connection.createStatement();

//statement.execute(query3);

ResultSet resultSet = statement.executeQuery(query4);

while(resultSet.next()){

System.out.print("Имя: "+resultSet.getString("FirstName")+" ");

System.out.print("Фамилия: "+resultSet.getString("LastName")+" ");

System.out.println("Отчество: "+resultSet.getString("Patronymic"));

}

}

}catch (SQLException e){

e.printStackTrace();

}

}

Результат работы:

