PROJECT DESCRIPTION

PROJECT NAME : LAUNDARY SYSTEM

PROBLEM CASE : CHAOS ABOUT LAUNDARY QUES

AIM OF PROJECT : EASE OF USE LAUNDARY FACILITIES IN A DORMITORY

PROJECT REQUIREMENTS

 I used two tables which named by Machine Table and Student Table. There is an access between the tables with a foreign key Machine ID. By this way I have 2 entity = student, machine.

In the Machine table, we have washers, and driers and their informations. All row has only one entity (Machine ID) which express each machine. Each entities have several attributes like Machine Type, Date , Time Zone.

In the Student table, there are information rows which represents each new student's infos.

The primary key of this tabele is Student ID . This entity has several attributes like Student Name, Student Surname , Student ID and a foreign key (Machine ID).

CONCEPTUAL DESIGN & ER DIAGRAM

My program uses 2 entitiy : student and machine. All attributes occurs around them. There is one foreign key : MachineID. My ER diagram explains conceptual side of my program design.

ER Diagram of Laundary System
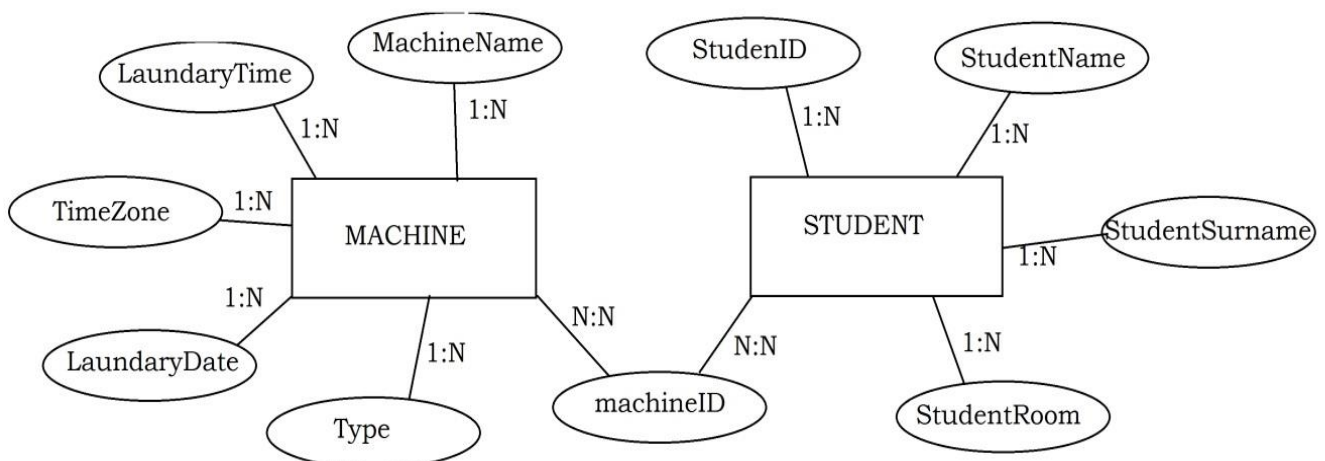
entities :machine,student primarykeys:machineID&studentID
attributes:type,laundarydate,timezone,laundarytime,machinename,machineID
studentID,studentname,studentsurname,studentroom

PHYSICAL DESIGN

MACHINE_TABLE

Table **Data** Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL

Query | Count Rows | Insert Row

EDIT	MACHINEID	TYPE	LAUNDARYDATE	TIMEZONE	LAUNDARYTIME	MACHİNENAME
	15	WASHER	01.01.2015	3H	12:00-15:00	WASHER15
	16	WASHER	01.01.2015	3H	12:00-15:00	WASHER16
	14	WASHER	01.01.2015	3H	12:00-15:00	WASHER14
	17	WASHER	01.01.2015	3H	12:00-15:00	WASHER17
	1	DRYER	01.01.2015	3H	15:00-18:00	DRYER1
	2	DRYER	01.01.2015	3H	15:00-18:00	DRYER2
	3	DRYER	01.01.2015	3H	15:00-18:00	DRYER3
	4	DRYER	01.01.2015	3H	15:00-18:00	DRYER4
	5	DRYER	01.01.2015	3H	15:00-18:00	DRYER5
	6	DRYER	01.01.2015	3H	15:00-18:00	DRYER6
	7	DRYER	01.01.2015	3H	15:00-18:00	DRYER7
	8	DRYER	01.01.2015	3H	15:00-18:00	DRYER8
	01	WASHER	01.01.2015	3H	12:00-15:00	DRYER01
	02	WASHER	01.01.2015	3H	12:00-15:00	DRYER02
	03	WASHER	01.01.2015	3H	12:00-15:00	DRYER03

row(s) 1 - 15 of 25 ⊙

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STUDENT_TABLE

Table **Data** Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL

Query | Count Rows | Insert Row

EDIT	STUDENTID	STUDENTNAME	STUDENTSURNAME	STUDENTROOM	MACHINEID
	147	CANSU	ŞEN	B147	14
	123	CEREN	CAN	B123	15
	101	AYSE	DEMİR	A101	1
	102	DAMLA	GÜN	B106	2
	103	ÖZNUR	YAVAŞ	A102	3
	104	NİSA	MÜHÜR	B105	4
	105	ASLI	CİVELEK	B109	5
	106	SEREN	YAVUZ	A107	6
	202	CEREN	GEMİCİ	A201	7
	203	BURCU	GÜÇ	A206	8
	301	EMEL	TURANLI	B301	01
	305	HALE	GÜZEL	A312	03
	405	ESLEM	ADALI	B405	04
	408	KÜBRA	KAYA	B400	05
	409	CEMRE	KARA	B410	06

row(s) 1 - 15 of 23 ⊙

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INTERFACE SCREENSHOOTS

Laundary System Homepage

Update Options

Delete Options
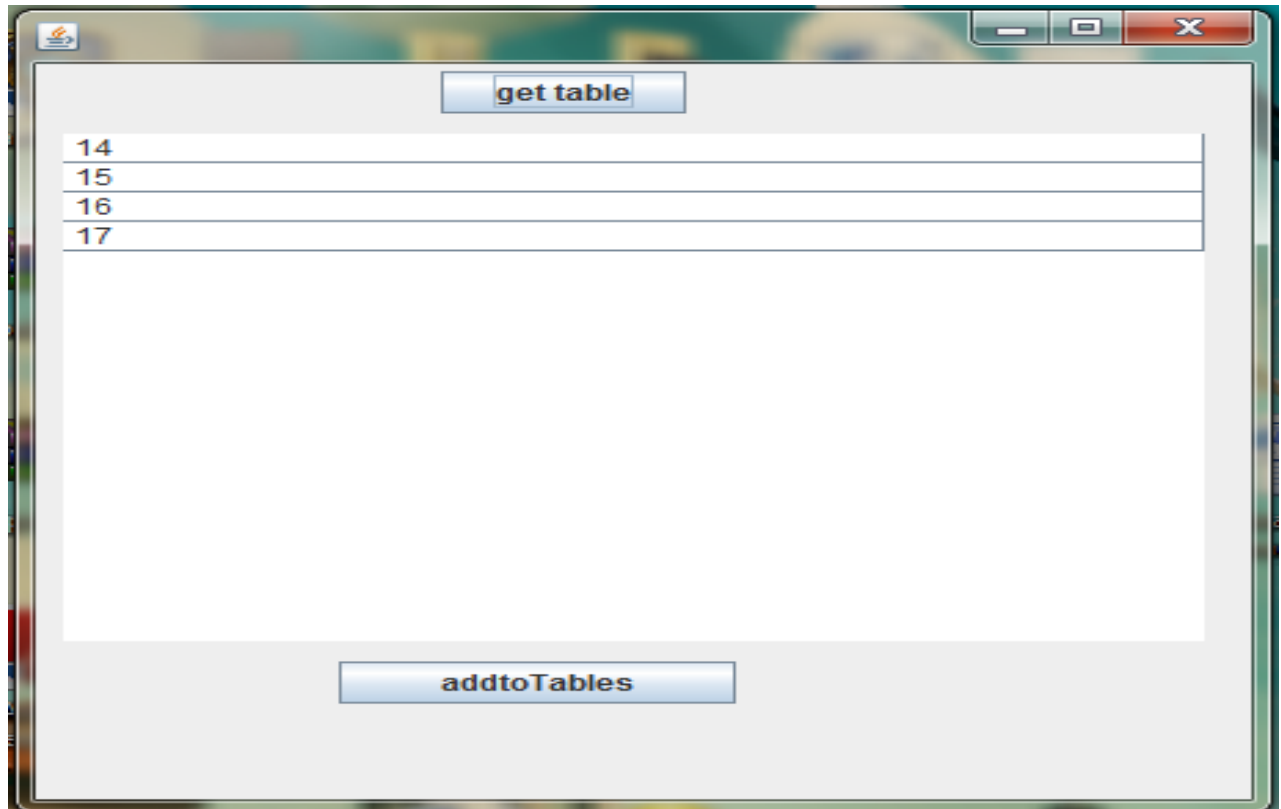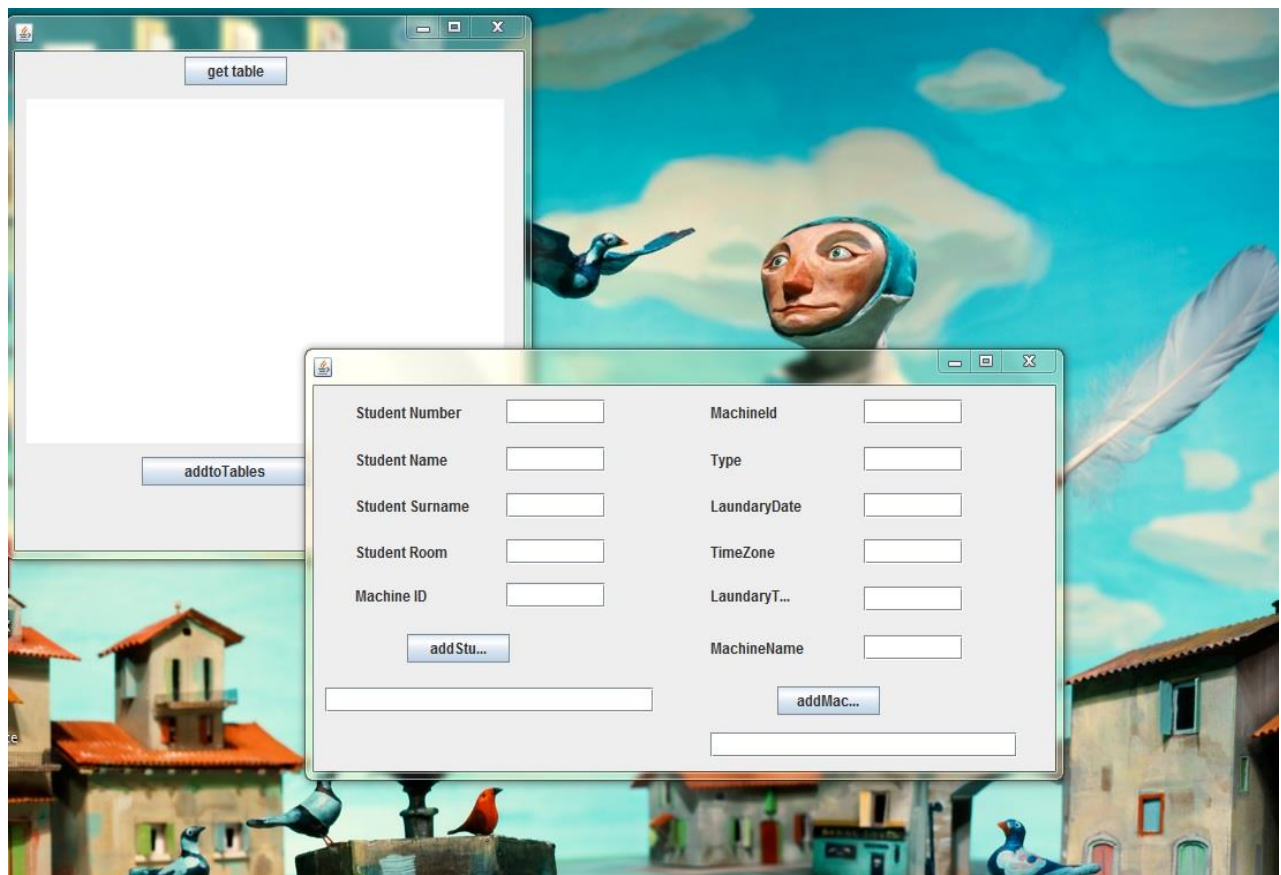

Update Machine Table
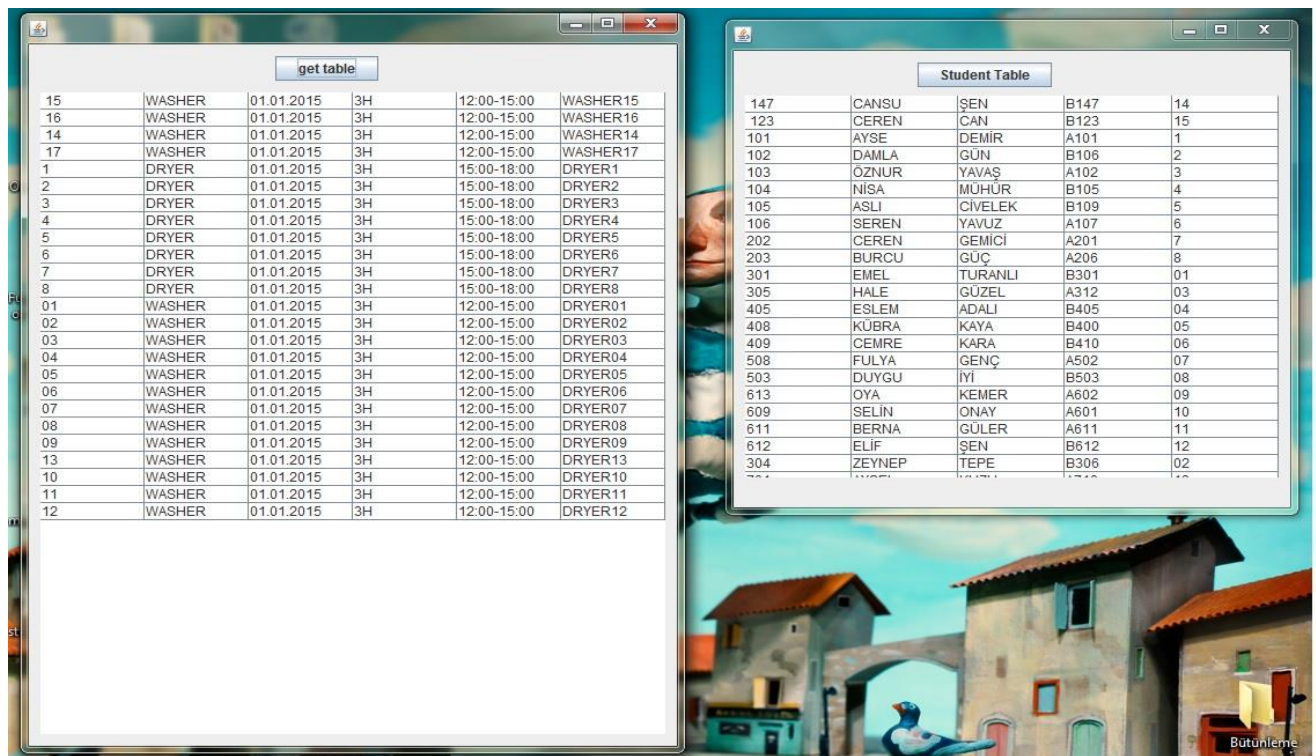

Update Student Table
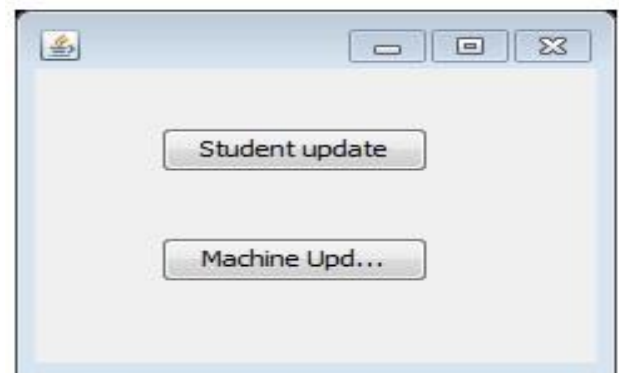
Get Free Machine

Add rows to machine table || student table
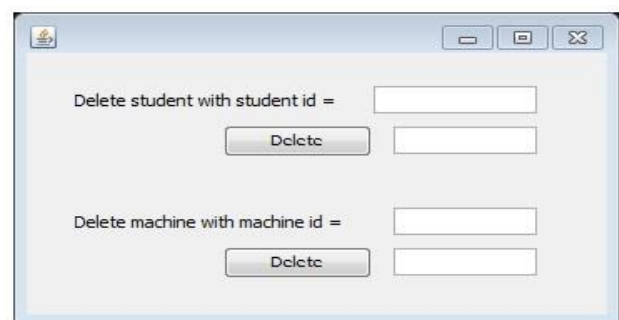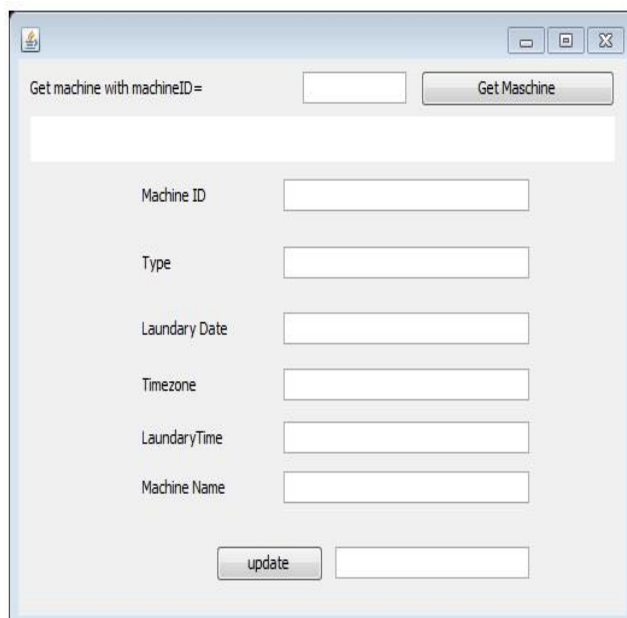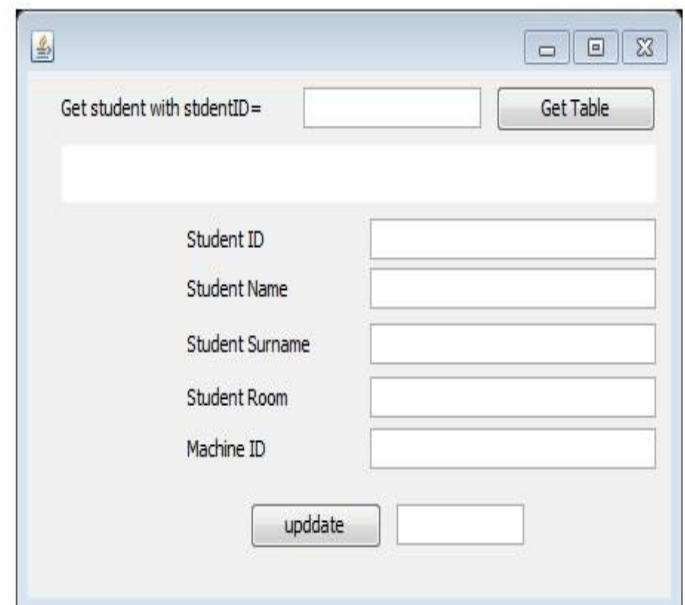
Get Machine Table & Get Student Table

SQL CODES IN MY JAVA APPLICATION

To connection:

```
Class.forName("java.sql.Driver");
Connection con= (Connection)DriverManager.getConnection
("jdbc:oracle:thin:@//localhost:1521/XE","MERTKAN","mertkan");
```

To get tables:

```
St.executeQuery("select * from MACHINE_TABLE");
```

To add row:

```
St.executeQuery("INSERT INTO STUDENT_TABLE
(STUDENTID,STUDENTNAME,STUDENTSURNAME,STUDENTROOM,MACHINEID) VALUES (' "
+StudentID + "','" +StudentNAME + "','" + StudentSURNAME+ "','" + StudentROOM +
"','" +MachineID + "'");
```

To Update row:

```
St.executeQuery("select * from STUDENT_TABLE where STUDENTID = '"  +
textField.getText() + "'" );
```

To delete:

```
St.executeQuery("DELETE FROM MACHINE_TABLE WHERE MACHINEID='" +machinekey+ "'");
```

To select the difference MachineID (MINUS operation):

```
St.executeQuery("SELECT MACHINEID FROM MACHINE_TABLE MINUS SELECT MACHINEID FROM STUDENT_TABLE");
```