ბაზის შექმნა: - connect 'jdbc:derby://localhost:1527/UsersDb;create=true';

ბაზასთან შემდგომში დაკავშირება - connect 'jdbc:derby://localhost:1527/UsersDb’;

**შენიშვნა - თუ შემთხვევით ორჯერ გავუშვებთ ცხრილის შექმნის ქუერის, მაშინ ბაზის ერორის თავიდან ასაცილებლად უნდა დავწეროთ -> CREATE TABLE IF NOT EXISTS (TABLE\_NAME)**

Users - ცხრილის შექმნა - **CREATE** **TABLE** Users**(**

Id INTEGER **NOT NULL PRIMARY KEY,**

Name VARCHAR**(**255**),**

Lastname VARCHAR**(**255**),**

Personal\_id VARCHAR(255) **UNIQUE,**

Balance decimal(10, 2)

**);**

Agents - ცხრილის შექმნა - **CREATE** **TABLE** Agents**(**

Id INTEGER **NOT NULL,**

Name VARCHAR**(**255**),**

Password VARCHAR(255)**,**

**PRIMARY** **KEY** **(**Id**)**

**);**

agent\_access ცხრილის შექმნა - **CREATE** **TABLE** Agent\_access**(**

Row\_id INTEGER **NOT** **NULL** GENERATED ALWAYS **AS** **IDENTITY,**

Allowed\_ip VARCHAR**(**255**),**

Agent\_id INTEGER**,**

**PRIMARY** **KEY** **(**Row\_id**),**

**FOREIGN** **KEY(**Agent\_id**)** **REFERENCES** Agents**(**Id**)**

**);**

transactions ცხრილის შექმნა - **CREATE** **TABLE** Transactions**(**

System\_transaction\_id BIGINT **NOT** **NULL** GENERATED ALWAYS **AS** **IDENTITY,**

Agent\_id INTEGER**,**

Agent\_transaction\_id VARCHAR(255)**,**

User\_id INTEGER**,**

Amount DECIMAL(10, 2)**,**

Transaction\_date TIMESTAMP DEFAULT **CURRENT\_TIMESTAMP,**

**UNIQUE(**Agent\_id, agent\_transaction\_id**),**

**PRIMARY** **KEY** **(**System\_transaction\_id**),**

**FOREIGN** **KEY(**Agent\_id**)** **REFERENCES** Agents**(**Id**),**

**FOREIGN** **KEY(**User\_id**)** **REFERENCES** Users**(**Id**)**

**);**

ჩავწეროთ User ცხრილში მონაცემები - **INSERT** **INTO** Users

**(**id, Name**,** Lastname**,** Personal\_id, Balance**)**

**VALUES**

**(**1**,** 'Sebastian'**,** 'Vettel'**,** '38002048320', 30000**),**

**(**2**,** 'Lewis'**,** 'Hamilton'**,** '74032078221', 5000.405**),**

**(**3**,** 'Max'**,** 'Verstappen'**,** '86991438491', 12.25**),**

**(**4**,** 'George'**,** 'Russell'**,** '35117539201', 105**),**

**(**5**,** 'Charles'**,** 'Leclerc'**,** '75332985627', 200.90**);**

შევავსოთ Agents ცხრილი - **INSERT** **INTO** Agents

**(**id, Name**,** Password**)**

**VALUES**

**(**1**,** 'user1'**,** 'pass1'**),**

**(**2**,** 'user2'**,** 'pass2'**),**

**(**3**,** 'user3'**,** 'pass3'**);**

შევავსოთ Agent\_access - **INSERT** **INTO** Agent\_access

**(**Allowed\_ip**,** Agent\_id**)**

**VALUES**

**(**'127.0.0.1'**,** 1**),**

**(**'127.0.0.1'**,** 2**),**

**(**'192.168.0.2'**,** 3**),**

**(**'0:0:0:0:0:0:0:1'**,** 1**),**

**(**'0:0:0:0:0:0:0:1'**,** 2**),**

**(**'192.168.3.1'**,** 2**);**

**Project B**

ბაზის შექმნა: - connect 'jdbc:derby://localhost:1527/PaymentsDb;create=true';

ბაზასთან შემდგომში დაკავშირება - connect 'jdbc:derby://localhost:1527/PaymentsDb;

Payments - ცხრილის შექმნა - **CREATE** **TABLE** Payments**(**

Payment\_id INTEGER **NOT NULL PRIMARY KEY,**

User\_id INTEGER**,**

Amount DECIMAL(10, 2)**,**

Transaction\_id BIGINT,

Request\_date TIMESTAMP**,**

Response\_date TIMESTAMP**,**

Code SMALLINT,

Status SMALLINT,

**CONSTRAINT** Sta\_CHK **CHECK** (Status **IN (0, 1, 2)**)

**);**

**Agent\_id: 1 / password: cGFzczE= /////// without base64 password: pass1**

**Agent\_id: 2 / password: cGFzczI= /////// without base64 password: pass2**

**Agent\_id:3 / password: cGFzczM= /////// without base64 password: pass3**