JDBC Exercise

This exercise objective on using JDBC connect database and manipulate data with CRUD.

Table schema

```
CREATE TABLE ttransaction (
       transid VARCHAR(50) NOT NULL COMMENT 'UUID',
       userid VARCHAR(50) NOT NULL COMMENT 'tuser.userid',
       transdate DATE NOT NULL,
       journalid VARCHAR(50) NOT NULL COMMENT 'tjournal.journalid',
       transno INT(11) NOT NULL COMMENT 'sequence number',
       amount DECIMAL(20,4) NOT NULL,
       remark VARCHAR(200) NULL DEFAULT NULL,
       transtime DATETIME NULL DEFAULT NULL,
       editdate DATE NULL DEFAULT NULL,
       edittime TIME NULL DEFAULT NULL,
       PRIMARY KEY (transid),
       UNIQUE INDEX userid_trxdate_journalid (userid, transdate, journalid)
);
```

Specification

1. Material class TTransaction.java
2. CRUD
   a. Method create using PreparedStatement insert data into table ttransaction with the following
        i. transid = UUID if not specified
       ii. transdate = current date if not specified
      iii. userid = must specified
       iv. journalid = must specified
        v. transno = must specified
       vi. amount = must specified
      vii. remark = optional
     viii. transtime = current timestamp

    ix. editdate = current date

    x. edittime = current time

b. Method retrieve using PrepareStatement to execute query and fetch data from ResultSet into attributes of class TTransaction with key column transid specified by parameter passing

    i. transid = must specified

c. Method update using PrepareStatement to update column journalid, amount, remark, editdate, edittime with key column transid specified by parameter passing

    i. transid = must specified

    ii. journalid = must specified

    iii. amount = must specified

    iv. remark = optional

    v. editdate = current date

    vi. edittime = current time

d. Method delete using PrepareStatement to delete data from table ttransaction with key column transid specified by parameter passing

    i. transid = must specified