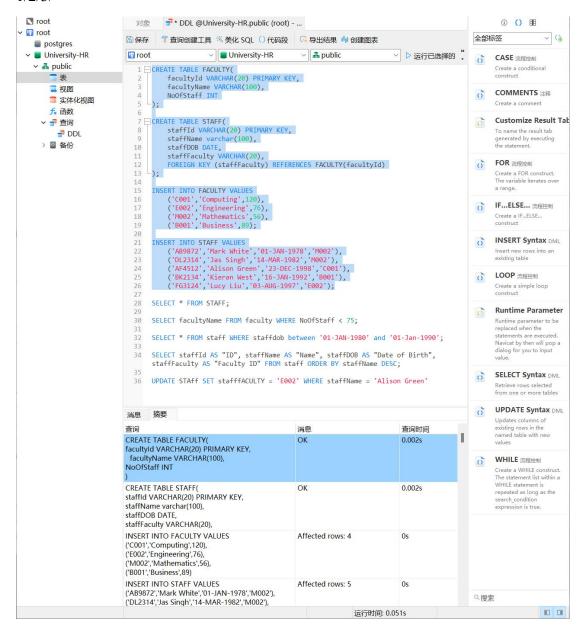
Data Base Lab04

Group members: Liang Haoxuan, Liu Sihan, Wang Changpeng

Basic Tasks

1/2/3/



a/

```
26
          ('FG3124','Lucy Liu','03-AUG-1997','E002');
 27
  28
      SELECT * FROM STAFF;
 29
     SELECT facultyName FROM faculty WHERE NoOfStaff < 75;
 31
      SELECT * FROM staff WHERE staffdob between '01-JAN-1980' and '01-Jan-1990';
 32
  33
  34
      SELECT staffId AS "ID", staffName AS "Name", staffDOB AS "Date of Birth",
      staffFaculty AS "Faculty ID" FROM staff ORDER BY staffName DESC;
 35
 36
      UPDATE STAFF SET stafffACULTY = 'E002' WHERE staffName = 'Alison Green'
            结果 1
消息 摘要
 staffid
            staffname
                            staffdob
                                          stafffaculty
► AB9872
            Mark White
                            1978-01-01
                                          M002
 DL2314
            Jas Singh
                            1982-03-14
                                          M002
 AF4512
            Alison Green
                            1998-12-23
                                          C001
            Kieran West
 BK2134
                            1992-01-16
                                          B001
                            1997-08-03
 FG3124
            Lucy Liu
                                          E002
```

b/

```
29
      SELECT facultyName FROM faculty WHERE NoOfStaff < 75;
 31
     SELECT * FROM staff WHERE staffdob between '01-JAN-1980' and '01-Jan-1990';
 32
 33
      SELECT staffId AS "ID", staffName AS "Name", staffDOB AS "Date of Birth",
 34
      staffFaculty AS "Faculty ID" FROM staff ORDER BY staffName DESC;
 35
     UPDATE STAFF SET stafffACULTY = 'E002' WHERE staffName = 'Alison Green'
 36
消息
     摘要
             结果1
 facultyname
Mathematics
```

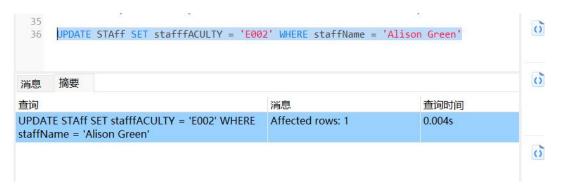
c/

```
29
      SELECT facultyName FROM faculty WHERE NoOfStaff < 75;
  30
  31
      SELECT * FROM staff WHERE staffdob between '01-JAN-1980' and '01-Jan-1990';
  32
  33
      SELECT staffId AS "ID", staffName AS "Name", staffDOB AS "Date of Birth",
  34
      staffFaculty AS "Faculty ID" FROM staff ORDER BY staffName DESC;
  35
      UPDATE STAFF SET stafffACULTY = 'E002' WHERE staffName = 'Alison Green'
             结果1
       摘要
消息
 staffid
            staffname
                            staffdob
                                          stafffaculty
▶ DL2314
                                          M002
            Jas Singh
                            1982-03-14
```

d/

```
33
      SELECT staffId AS "ID", staffName AS "Name", staffDOB AS "Date of Birth",
  34
      staffFaculty AS "Faculty ID" FROM staff ORDER BY staffName DESC;
  35
      UPDATE STAFF SET stafffACULTY = 'E002' WHERE staffName = 'Alison Green'
  36
             结果1
消息
       摘要
 ID
            Name
                            Date of Birth
                                            Faculty ID
            Mark White
                                            M002
► AB9872
                            1978-01-01
 FG3124
            Lucy Liu
                            1997-08-03
                                            E002
                                            B001
 BK2134
            Kieran West
                            1992-01-16
 DL2314
            Jas Singh
                            1982-03-14
                                            M002
 AF4512
            Alison Green
                            1998-12-23
                                            C001
```

e/





```
Medium Tasks
5/
CREATE TABLE CUSTOMER (
    custId DECIMAL(10) PRIMARY KEY,
    address VARCHAR(30),
    city VARCHAR(20),
    custTypeCd VARCHAR(1) NOT NULL,
    fedId VARCHAR(12) NOT NULL,
    postalCode VARCHAR(10),
    state VARCHAR(20)
);
CREATE TABLE BRANCH (
    branchId DECIMAL(10) PRIMARY KEY,
    address VARCHAR(30),
    city VARCHAR(20),
    name VARCHAR(20) NOT NULL,
    state VARCHAR(12),
    zipCode VARCHAR(10)
);
CREATE TABLE DEPARTMENT (
    deptId DECIMAL(10) PRIMARY KEY,
    name VARCHAR(20) NOT NULL
);
CREATE TABLE EMPLOYEE (
    empId DECIMAL(10) PRIMARY KEY,
```

```
endDate DATE,
    firstName VARCHAR(20) NOT NULL,
    lastName VARCHAR(20) NOT NULL,
    startDate DATE,
    title VARCHAR(20),
    assignedBranchId DECIMAL(10),
    deptId DECIMAL(10),
    superiorEmpId DECIMAL(10),
    FOREIGN KEY (assignedBranchId) REFERENCES BRANCH (branchId),
    FOREIGN KEY (deptId) REFERENCES DEPARTMENT (deptId),
    FOREIGN KEY (superiorEmpId) REFERENCES EMPLOYEE (empId)
);
CREATE TABLE PRODUCT TYPE (
    productTypeCd VARCHAR(255) PRIMARY KEY,
    name VARCHAR(50)
);
CREATE TABLE PRODUCT (
    productCd VARCHAR(10) PRIMARY KEY,
    dateOffered DATE,
    dateRetired DATE,
    name VARCHAR(50) NOT NULL,
    productTypeCd VARCHAR(255),
    FOREIGN
                      (productTypeCd)
               KEY
                                      REFERENCES
                                                     PRODUCT TYPE
(productTypeCd)
);
CREATE TABLE ACCOUNT (
    accountId INT PRIMARY KEY,
    availBalance DECIMAL(14, 2),
    closeDate DATE,
    lastActivityDate DATE,
    openDate DATE NOT NULL,
    pendingBalance DECIMAL(14, 2),
```

```
status VARCHAR(10),
    custId DECIMAL(10),
    openBranchId DECIMAL(10) NOT NULL,
    openEmpId DECIMAL(10) NOT NULL,
    productCD VARCHAR(10) NOT NULL,
    FOREIGN KEY (custId) REFERENCES CUSTOMER (custId),
    FOREIGN KEY (openBranchId) REFERENCES BRANCH (branchId),
    FOREIGN KEY (openEmpId) REFERENCES EMPLOYEE (empId),
    FOREIGN KEY (productCD) REFERENCES PRODUCT (productCd)
);
CREATE TABLE ACC TRANSACTION (
    txinId INT PRIMARY KEY,
    amount DECIMAL(14, 2) NOT NULL,
    fundsAvailDate TIMESTAMP NOT NULL,
    txin Date TIMESTAMP NOT NULL,
    txinTypeCd VARCHAR(10),
    accountId INT,
    executionBranchId DECIMAL(10),
    tellerEmpId DECIMAL(10),
    FOREIGN KEY (accountId) REFERENCES ACCOUNT (accountId),
    FOREIGN KEY (executionBranchId) REFERENCES BRANCH (branchId),
    FOREIGN KEY (tellerEmpId) REFERENCES EMPLOYEE (empId)
);
CREATE TABLE BUSINESS (
    custId DECIMAL(10) PRIMARY KEY NOT NULL,
    incorpDate DATE,
    name VARCHAR(255) NOT NULL,
    stateId VARCHAR(10) NOT NULL,
    FOREIGN KEY (custId) REFERENCES CUSTOMER (custId)
);
CREATE TABLE INDIVIDUAL (
    custId DECIMAL(10) PRIMARY KEY,
    birthDate DATE,
```

```
firstName VARCHAR(30),
    lastName VARCHAR(30),
    FOREIGN KEY (custId) REFERENCES CUSTOMER (custId)
);
CREATE TABLE OFFICER (
    officerId DECIMAL(10) PRIMARY KEY,
    endDate DATE,
    firstName VARCHAR(30) NOT NULL,
    lastName VARCHAR(30) NOT NULL,
    startDate DATE NOT NULL,
    title VARCHAR(20),
    custId DECIMAL(10),
    FOREIGN KEY (custId) REFERENCES CUSTOMER (custId)
);
SELECT table_name FROM information_schema.tables WHERE table_schema =
'public';
```

