### JAVA AWT BASED-Iris Based Age Classification system - SQL CONNECTIVITY USING JDBC

A

Report
Submitted in partial fulfillment of the
Requirements for the award of the Degree of

# BE IV SEMESTER DATABASE MANAGEMENT SYSTEMLAB INFORMATION TECHNOLOGY

By

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Under the Guidance of

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#### **BONAFIDE CERTIFICATE**

This to Certify that the project report titled "Iris Based Age Classification system" is the bonafied mini project work of Mr. S. Sai Rohith bearing Roll.no:1602-18-737-098 who carried out this project under the Guidance of B.Leelavathy during IV semester B.E for the academic year 2019-2020.

external examiner

internal examiner

B.LEELAVATHY
Assistant Professor
Department of Information Technology

#### **AIM AND PRIORITY OF THE PROJECT:**

To create a GUI based form for the project of **Iris Based Age Classification system** where in a person age can be known by scaning his eye. The values entered (insertion, updation, deletion) by the user for respective table in GUI should be updated in the database using JDBC.

#### 1.Abstract:

The average human eyeball is about one inch (25.4mm)in diameter, and weighs 0.25ounces (7.09gram). This is just slightly smaller than a regulation ping pong ball. The human iris ranges from 10.2mm to 13.0mm on average. by this diameter and range of vision we can find the age of the person if this values are collected from a healthy uninjured person.if we consider ratio of range of vision and retina diameter then it will decrease with the increase in the age."Age measurement is very difficult," says Dr Thomas Huang, the lead developer. "If you use the face to estimate age we can really get the apparent age, or how old a person looks."The researchers trained their computer algorithm using 1,600 different people with five pictures of each person, for a total of 8,000 images. The age of the people in the pictures ranged from one year to 93 years old.so by their research they have given ranges of retina ratio and age of people with that ratio. with the help of that ratio this project is based on. with the help of that segeration we are going to estimate the age of people using this software.

#### **2.INTRODUCTION**

## > REQUIREMENTS FOR IRIS BASED AGE CLASSIFICATION SYSTEM:

REQUIREMENT ANALYSIS

#### List of tables:

- COMPANY
- RETINA SCANNER
- RETINA\_SCANNER\_PREPAREDBY
- SCAN
- PERSON
- REPORT

#### List of attributes with their domain types:

1. Company:

Company\_id : number()

Name: varchar()

Address : varchar()

Rating: number()

2. Retina scanner:

Scanner id: number

Name: varchar()

Cost: number

Accuracy: number

3. Prepared\_by:

Scanner id: number

Company id: number

Day: date

4. Person:

Person id: number

Name : varchar()

Phone\_no: number(10)

Address: varchar()

5. Scan:

Person\_id: number

Scanner id: number

Report\_id : number

#### 6. Report:

Report id: number

Person\_id : number

Age: number

Colour: varchar()

Retina ratio: number

#### > SPECIFIC GOAL OF THE PROJECT:

The main goal to be achieved through this project was to provide a facility to classify people by their age without knowing their age from them. This is done with the help of their retina size. People who uses this application can know their age with the help of their retina size.

The project also ensure that the details of the people are confidential and are stored in the database.

#### > Architecture and technology used:

Java Eclipse, Oracle 11g Database, java SE version 8, SQL \*plus ,java AWT.

**Eclipse**: It is an integrated development environment (IDE) used in computer programming. It contains a base workspace and an extensible plug in system for customizing the environment. The Eclipse software development kit (SDK), which include java development tools is meant for java developers.

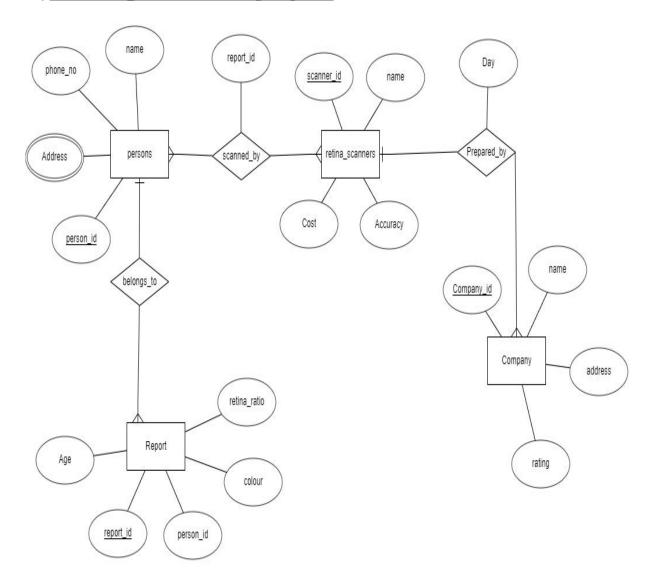
**SQL \*plus**: SQL \*plus is a command line tool proprietary to oracle. You can send SQL Queries to the server using the tool. It can also help you format the result of query. SQL is the query language that is used to communicate with the oracle server to access and modify data.

**JAVA AWT**: Abstract window tool kit is an API to develop GUI or Window based applications in java. Java AWT components are platform dependent i.e components are displayed according to the view of operating system. AWT is heavy weight that is components are using the resources of O.S.

**JDBC**: Java Database Connectivity is an application programming interface (API) for the programming language java, which defines how a client may access database. It is a java based data access technology used for java database connectivity. It is the part of java Standard Edition Platform, from oracle corporation.

#### > DESIGN:

### i) ER Diagram of this project:



### MAPPING CARDINALITIES AND PARTICIPATION CONSTRAINTS:

A company can prepare many retina scanners with different costs and different accuracy. But each retina scanner can be prepared by only one specific company only.

A person can be scan his eye any number of times with different scanners to know his age and generate many number of reports I.e., different report for each scan.

But a each report is belongs to only one person. That is person may repeat but report id should not repeat again.

Address attribute in person table is multi variable attribute and all id's in each table are primary keys.

#### **3.DDL Commands:**

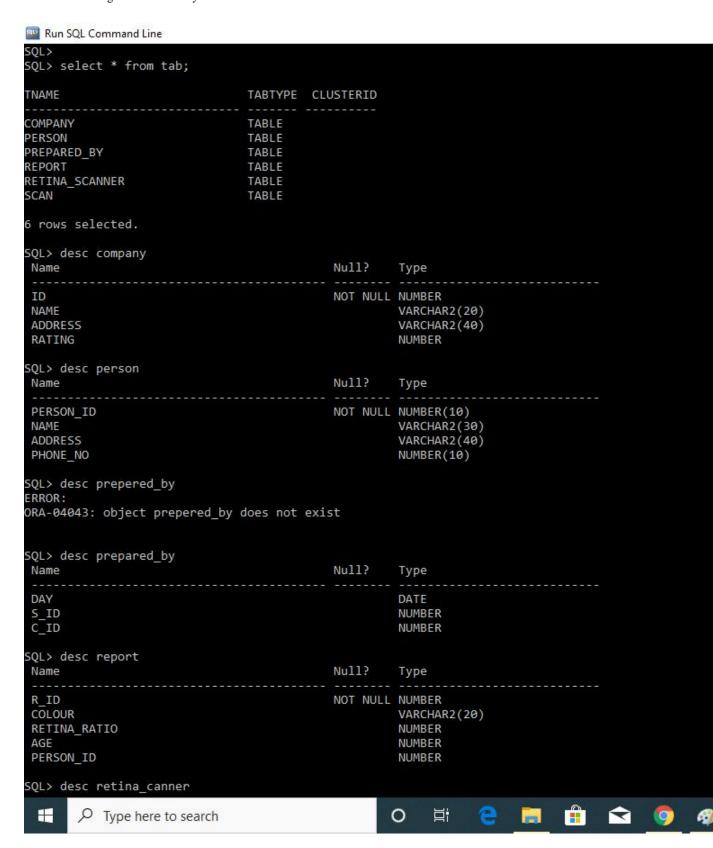
- i) Creating all the required tables.
- ii) Enforcing constraints to primary, forein key constraints.

Run SQL Command Line					
SQL> SQL> SQL> SQL> SQL> SQL> SQL> SQL>					
	TARTVAL	CLUSTERE			
TNAME		CLUSTERID			
COMPANY	TABLE				
PERSON PETTANA SCANNER	TABLE				
RETINA_SCANNER	TABLE				
SQL> desc company					
Name		Null?	Type		
ID NAME		NOT NULL	VARCHAR2(20)		
ADDRESS			VARCHAR2(20)		
RATING			NUMBER		
SQL> desc retina_scanner			¥.033		
Name		Null?			
ID		NOT NULL			
NAME			VARCHAR2(20)		
COST			NUMBER		
ACCURACY		NOT NULL	NUMBER		
SQL> desc person					
Name		Null?	Type		
PERSON_ID NAME		NOT NULL	NUMBER(10) VARCHAR2(30)		
ADDRESS			VARCHAR2(40)		
PHONE_NO			NUMBER(10)		
SQL>					
Type here to search			O Ħ 🦲		숙 🧑 🧸
95728 W W W W W W W W W W W W W W W W W W W				The state of	

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Run SQL Command Line
NAME
                                                      VARCHAR2(30)
                                                      VARCHAR2(40)
 ADDRESS
 PHONE_NO
                                                      NUMBER(10)
SQL> create table scan(
2 report_id number;
report_id number
ERROR at line 2:
ORA-00907: missing right parenthesis
SQL> create table scan(
 2 report_id number,
  3 primary key(report_id),
  4 p id number,
  5 foreign key(p_id) references person(person_id),
  6 s id number,
  7 foreign key(s_id) references retina_scanner(id));
Table created.
SQL> desc scan
 Name
                                            Null?
                                                      Type
 REPORT_ID
                                            NOT NULL NUMBER
 P ID
                                                      NUMBER
 S_ID
                                                      NUMBER
SQL>
                                                                              0
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Run SQL Command Line
    primary key(report_id),
 4 p_id number,
 5 foreign key(p_id) references person(person_id),
 6 s_id number,
 7 foreign key(s_id) references retina_scanner(id));
Table created.
SQL> desc scan
                                        Null?
Name
                                                 Type
REPORT_ID
                                        NOT NULL NUMBER
P ID
                                                 NUMBER
S_ID
                                                 NUMBER
SQL> insert into scan values(13,14,15);
insert into scan values(13,14,15)
ERROR at line 1:
ORA-02291: integrity constraint (ASSINGMENT.SYS_C007037) violated - parent key
not found
SQL> select * from tab;
TNAME
                       TABTYPE CLUSTERID
COMPANY
                             TABLE
PERSON
                             TABLE
RETINA_SCANNER
                             TABLE
SCAN
                             TABLE
SQL> create table prepared_by(
 2 day date,
 3 s_id number,
 4 c_id number,
 5 foreign key(s_id) references retina_scanner(id));
Table created.
SQL> alter table prepared by add(foreign key(c id) references company(id));
Table altered.
SQL> desc prepared by
                                       Null?
Name
                                                 Type
DAY
                                                 DATE
S ID
                                                 NUMBER
                                                 NUMBER
C_ID
SQL>
                                                                       0
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                                                            2
       Type here to search
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Run SQL Command Line
ORA-02291: integrity constraint (ASSINGMENT.SYS_C007037) violated - parent key
not found
SQL> select * from tab;
TNAME
                             TABTYPE CLUSTERID
COMPANY
                             TABLE
PERSON
                             TABLE
RETINA_SCANNER
                             TABLE
SCAN
                             TABLE
SQL> create table prepared_by(
 2 day date,
 3 s_id number,
 4 c id number,
 5 foreign key(s id) references retina scanner(id));
Table created.
SQL> alter table prepared_by add(foreign key(c_id) references company(id));
Table altered.
SQL> desc prepared_by
                                        Null?
Name
                                                  Type
DAY
S_ID
                                                  NUMBER
                                                  NUMBER
C_ID
SQL> create table report(
 2 r_id number primary key,
 3 colour varchar2(20),
 4 retina_ratio number,
 5 age number,
 6 person id number,
 7 foreign key(person_id) references person(person_id));
Table created.
SQL> desc report
Name
                                         Null?
                                                Type
R ID
                                         NOT NULL NUMBER
COLOUR
                                                  VARCHAR2(20)
RETINA RATIO
                                                  NUMBER
                                                  NUMBER
PERSON ID
                                                  NUMBER
SQL>
                                                                        0
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#### DBMS ASSIGNMENT -2

Title: Iris based age classification system

Run SQL Command Line SQL> desc retina\_canner ERROR: ORA-04043: object retina\_canner does not exist SQL> desc retina\_scanner Name Null? Type ID NOT NULL NUMBER NAME VARCHAR2(20) COST NOT NULL NUMBER ACCURACY NOT NULL NUMBER SQL> desc scan Name Null? Type REPORT\_ID NOT NULL NUMBER P ID NUMBER S\_ID NUMBER SQL> 0 Ħ Type here to search

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Run SQL Command Line
Name
                                           Null?
                                                     Type
REPORT ID
                                           NOT NULL NUMBER
                                                     NUMBER
P ID
 SID
                                                     NUMBER
SQL> alter table company add constraint ck rating check(rating between 0 and 100);
Table altered.
SQL> desc company
Name
                                           Null?
                                                     Type
 ID
                                           NOT NULL NUMBER
 NAME
                                                     VARCHAR2(20)
 ADDRESS
                                                     VARCHAR2(40)
 RATING
                                                     NUMBER
SQL> insert into person values(&person_id,'&name','&address',&phone no);
Enter value for person_id: 1
Enter value for name: sai
Enter value for address:
Enter value for phone no: 1
old 1: insert into person values(&person_id,'&name','&address',&phone_no)
new 1: insert into person values(1, 'sai','',1)
1 row created.
SQL> delete from person
 2;
1 row deleted.
SQL> alter table person add constraint ck_phone_no check(phone_no between 1000000000 and 9999999999);
Table altered.
SQL> insert into person values(&person id,'&name','&address',&phone no);
Enter value for person_id: 1
Enter value for name: sai
Enter value for address: abc
Enter value for phone no: 567
old 1: insert into person values(&person id,'&name','&address',&phone no)
new 1: insert into person values(1, 'sai', 'abc',567)
insert into person values(1, 'sai', 'abc',567)
ERROR at line 1:
ORA-02290: check constraint (ASSINGMENT.CK PHONE NO) violated
SOL>
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        O Type here to search
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#### Run SQL Command Line SQL> desc company Null? Type Name ID NOT NULL NUMBER NAME VARCHAR2(20) **ADDRESS** VARCHAR2(40) RATING NUMBER SQL> insert into person values(&person\_id,'&name','&address',&phone\_no); Enter value for person\_id: 1 Enter value for name: sai Enter value for address: Enter value for phone\_no: 1 old 1: insert into person values(&person\_id,'&name','&address',&phone\_no) new 1: insert into person values(1,'sai','',1) 1 row created. SQL> delete from person 1 row deleted. SQL> alter table person add constraint ck\_phone\_no check(phone\_no between 1000000000 and 9999999999); Table altered. SQL> insert into person values(&person\_id,'&name','&address',&phone\_no); Enter value for person\_id: 1 Enter value for name: sai Enter value for address: abc Enter value for phone no: 567 old 1: insert into person values(&person\_id,'&name','&address',&phone\_no) new 1: insert into person values(1,'sai','abc',567) insert into person values(1, 'sai', 'abc',567) ERROR at line 1: ORA-02290: check constraint (ASSINGMENT.CK\_PHONE\_NO) violated SQL> insert into person values(&person\_id,'&name','&address',&phone\_no); Enter value for person\_id: 1 Enter value for name: sai Enter value for address: abc Enter value for phone no: 7095716819 old 1: insert into person values(&person\_id,'&name','&address',&phone\_no) 1: insert into person values(1, 'sai', 'abc', 7095716819) 1 row created.

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Name: S.Sai Rohith Roll Number: 1602-18-737-098

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SOL>

Title: Iris based age classification system Run SOL Command Line SQL> insert into person values(&person\_id,'&name','&address',&phone\_no); Enter value for person id: 1 Enter value for name: sai Enter value for address: abc Enter value for phone no: 7095716819 old 1: insert into person values(&person\_id,'&name','&address',&phone\_no) 1: insert into person values(1, 'sai', 'abc', 7095716819) 1 row created. SQL> insert into person values(&person\_id,'&name','&address',&phone\_no); Enter value for person id: 99 Enter value for name: sampath Enter value for address: dvk Enter value for phone no: 9381321423 old 1: insert into person values(&person id,'&name','&address',&phone no) 1: insert into person values(99, 'sampath', 'dvk', 9381321423) 1 row created. SQL> insert into person values(&person id,'&name','&address',&phone no); Enter value for person id: 100 Enter value for name: vignesh Enter value for address: sathupally Enter value for phone\_no: 9505673198 1: insert into person values(&person\_id, '&name', '&address', &phone\_no) 1: insert into person values(100, 'vignesh', 'sathupally', 9505673198) 1 row created. SQL> insert into person values(&person\_id,'&name','&address',&phone\_no); Enter value for person\_id: 101 Enter value for name: susheel Enter value for address: attapur Enter value for phone\_no: 9121497115 old 1: insert into person values(&person\_id,'&name','&address',&phone\_no) new 1: insert into person values(101, 'susheel', 'attapur', 9121497115) 1 row created. SOL> insert into person values(&person id,'&name','&address',&phone no); Enter value for person id: 102 Enter value for name: samson Enter value for address: hanamkonda Enter value for phone no: 9505663097 1: insert into person values(&person\_id,'&name','&address',&phone\_no)

1: insert into person values(102, 'samson', 'hanamkonda', 9505663097)

1 row created.

SQL>

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Run SOL Command Line
     1: insert into person values(100, 'vignesh', 'sathupally', 9505673198)
1 row created.
SQL> insert into person values(&person_id,'&name','&address',&phone_no);
Enter value for person id: 101
Enter value for name: susheel
Enter value for address: attapur
Enter value for phone_no: 9121497115
old 1: insert into person values(&person_id,'&name','&address',&phone_no)
new 1: insert into person values(101, 'susheel', 'attapur', 9121497115)
1 row created.
SQL> insert into person values(&person_id,'&name','&address',&phone_no);
Enter value for person_id: 102
Enter value for name: samson
Enter value for address: hanamkonda
Enter value for phone no: 9505663097
old 1: insert into person values(&person id, '&name', '&address', &phone no)
new 1: insert into person values(102, 'samson', 'hanamkonda',9505663097)
1 row created.
SQL> select * from person;
PERSON ID NAME
ADDRESS
                                          PHONE NO
     1 sai
abc
                                         7095716819
       99 sampath
dvk
                                         9381321423
      100 vignesh
sathupally
                                         9505673198
PERSON ID NAME
ADDRESS
                                         PHONE NO
      101 susheel
attapur
                                         9121497115
      102 samson
hanamkonda
                                         9505663097
SQL> '
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Run SOL Command Line
SOL> '
SP2-0042: unknown command "'" - rest of line ignored.
SOL> desc company
Name
                                            Null?
                                                      Type
 ID
                                            NOT NULL NUMBER
 NAME
                                                      VARCHAR2(20)
 ADDRESS
                                                      VARCHAR2(40)
 RATING
                                                      NUMBER
SQL> insert into company values(&id,'&name','&address',&rating);
Enter value for id: 1001
Enter value for name: iris id
Enter value for address: united states
Enter value for rating: 95
old 1: insert into company values(&id,'&name','&address',&rating)
new 1: insert into company values(1001, 'iris id', 'united states',95)
1 row created.
SQL> insert into company values(&id,'&name','&address',&rating);
Enter value for id: 1001
Enter value for name: cmi tech
Enter value for address: korea
Enter value for rating: 90
old 1: insert into company values(&id,'&name','&address',&rating)
new 1: insert into company values(1001,'cmi tech','korea',90)
insert into company values(1001,'cmi tech','korea',90)
ERROR at line 1:
ORA-00001: unique constraint (ASSINGMENT.SYS_C007021) violated
SQL> insert into company values(&id,'&name','&address',&rating);
Enter value for id: 1002
Enter value for name: cmi tech
Enter value for address: korea
Enter value for rating: 900
old 1: insert into company values(&id,'&name','&address',&rating)
new 1: insert into company values(1002, 'cmi tech', 'korea', 900)
insert into company values(1002, cmi tech', korea', 900)
ERROR at line 1:
ORA-02290: check constraint (ASSINGMENT.CK RATING) violated
SQL> insert into company values(&id,'&name','&address',&rating);
Enter value for id: 1002
Enter value for name: korea
Enter value for address: 2
Enter value for rating: a
old 1: insert into company values(&id, '&name', '&address', &rating)
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Name: S.Sai Rohith Roll Number: 1602-18-737-098

Type here to search

Run SQL Command Line SQL> insert into company values(&id,'&name','&address',&rating); Enter value for id: 1002 Enter value for name: korea Enter value for address: 2 Enter value for rating: a old 1: insert into company values(&id,'&name','&address',&rating)
new 1: insert into company values(1002,'korea','2',a)
insert into company values(1002,'korea','2',a) ERROR at line 1: ORA-00984: column not allowed here SQL> insert into company values(&id,'&name','&address',&rating); Enter value for id: 1002 Enter value for name: cmi tech Enter value for address: korea Enter value for rating: 90 old 1: insert into company values(&id,'&name','&address',&rating) new 1: insert into company values(1002, cmi tech', korea',90) 1 row created. SQL> insert into company values(&id,'&name','&address',&rating); Enter value for id: 1003 Enter value for name: princeton identity Enter value for address: united states Enter value for rating: 85 old 1: insert into company values(&id,'&name','&address',&rating) 1: insert into company values(1003, 'princeton identity', 'united states',85) 1 row created. SQL> insert into company values(&id,'&name','&address',&rating); Enter value for id: 1004 Enter value for name: sensor tech Enter value for address: united kingdom Enter value for rating: 80 old 1: insert into company values(&id,'&name','&address',&rating) new 1: insert into company values(1004,'sensor tech','united kingdom',80) 1 row created. SQL> insert into company values(&id,'&name','&address',&rating); Enter value for id: 1005 Enter value for name: argus Enter value for address: united kingdom Enter value for rating: 85 1: insert into company values(&id,'&name','&address',&rating)
1: insert into company values(1005,'argus','united kingdom',85) 1 row created.

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Name: S.Sai Rohith Roll Number: 1602-18-737-098

Type here to search

Run SQL Command Line SQL> insert into company values(&id,'&name','&address',&rating); Enter value for id: 1002 Enter value for name: korea Enter value for address: 2 Enter value for rating: a old 1: insert into company values(&id,'&name','&address',&rating)
new 1: insert into company values(1002,'korea','2',a)
insert into company values(1002,'korea','2',a) ERROR at line 1: ORA-00984: column not allowed here SQL> insert into company values(&id,'&name','&address',&rating); Enter value for id: 1002 Enter value for name: cmi tech Enter value for address: korea Enter value for rating: 90 old 1: insert into company values(&id,'&name','&address',&rating) new 1: insert into company values(1002, cmi tech', korea',90) 1 row created. SQL> insert into company values(&id,'&name','&address',&rating); Enter value for id: 1003 Enter value for name: princeton identity Enter value for address: united states Enter value for rating: 85 old 1: insert into company values(&id,'&name','&address',&rating) 1: insert into company values(1003, 'princeton identity', 'united states',85) 1 row created. SQL> insert into company values(&id,'&name','&address',&rating); Enter value for id: 1004 Enter value for name: sensor tech Enter value for address: united kingdom Enter value for rating: 80 old 1: insert into company values(&id,'&name','&address',&rating) new 1: insert into company values(1004,'sensor tech','united kingdom',80) 1 row created. SQL> insert into company values(&id,'&name','&address',&rating); Enter value for id: 1005 Enter value for name: argus Enter value for address: united kingdom Enter value for rating: 85 1: insert into company values(&id,'&name','&address',&rating)
1: insert into company values(1005,'argus','united kingdom',85) 1 row created.

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Name: S.Sai Rohith Roll Number: 1602-18-737-098

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Run SOL Command Line SQL> insert into retina\_scanner values(&id,'&name',&cost,&accuracy); Enter value for id: 1 Enter value for name: iritech Enter value for cost: 7500 Enter value for accuracy: 90 old 1: insert into retina\_scanner values(&id, '&name', &cost, &accuracy) 1: insert into retina scanner values(1, 'iritech',7500,90) 1 row created. SQL> insert into retina\_scanner values(&id,'&name',&cost,&accuracy); Enter value for id: 2 Enter value for name: inddus Enter value for cost: 4000 Enter value for accuracy: 70 old 1: insert into retina scanner values(&id,'&name',&cost,&accuracy) 1: insert into retina scanner values(2, 'inddus', 4000,70) 1 row created. SQL> insert into retina scanner values(&id,'&name',&cost,&accuracy); Enter value for id: 3 Enter value for name: cis202 Enter value for cost: 16500 Enter value for accuracy: 95 old 1: insert into retina\_scanner values(&id, '&name', &cost, &accuracy) 1: insert into retina scanner values(3, 'cis202',16500,95) 1 row created. SQL> insert into retina\_scanner values(&id,'&name',&cost,&accuracy); Enter value for id: 4 Enter value for name: mis\_iris Enter value for cost: 4500 Enter value for accuracy: 75 old 1: insert into retina\_scanner values(&id,'&name',&cost,&accuracy) new 1: insert into retina scanner values(4, 'mis iris',4500,75) 1 row created. SOL> insert into retina scanner values(&id,'&name',&cost,&accuracy); Enter value for id: 5 Enter value for name: ir scan Enter value for cost: 24000 Enter value for accuracy: 98 1: insert into retina scanner values(&id, '&name', &cost, &accuracy) 1: insert into retina scanner values(5, 'ir scan', 24000,98) 1 row created. SQL>

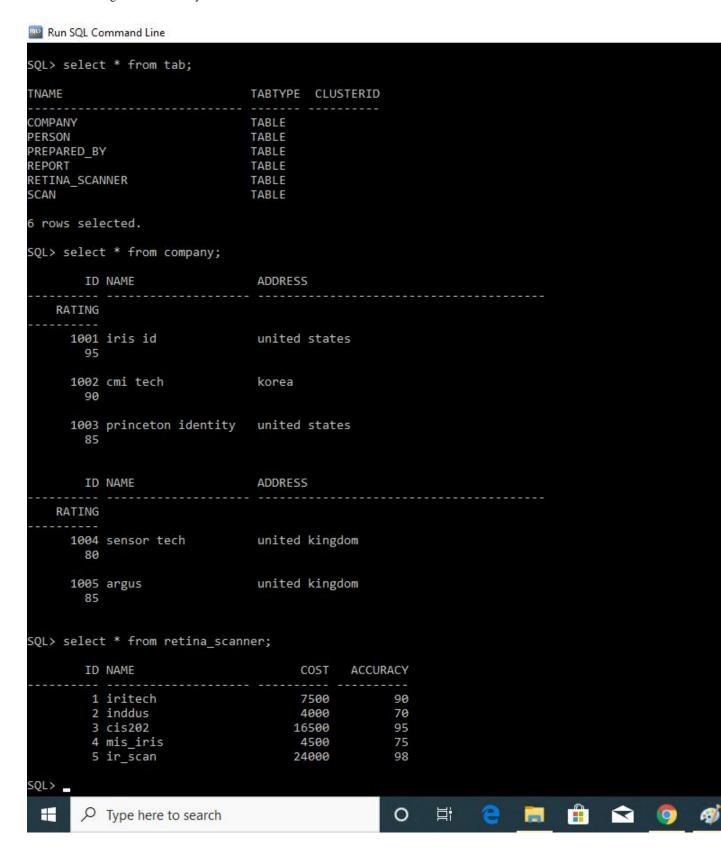
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Name: S.Sai Rohith Roll Number: 1602-18-737-098

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Run SOL Command Line insert into prepared\_by values('',1,103) ERROR at line 1: ORA-02291: integrity constraint (ASSINGMENT.SYS C007039) violated - parent key not found SQL> insert into prepared by values('&date',&s id,&c id); Enter value for date: Enter value for s\_id: 1 Enter value for c\_id: 1003 old 1: insert into prepared\_by values('&date',&s\_id,&c\_id) new 1: insert into prepared by values('',1,1003) 1 row created. SQL> insert into prepared by values('&date',&s id,&c id); Enter value for date: Enter value for s id: 2 Enter value for c id: 1004 1: insert into prepared by values('&date',&s id,&c id) 1: insert into prepared by values('',2,1004) 1 row created. SQL> insert into prepared\_by values('&date',&s\_id,&c\_id); Enter value for date: Enter value for s id: 3 Enter value for c\_id: 1002 old 1: insert into prepared\_by values('&date',&s\_id,&c\_id) new 1: insert into prepared\_by values('',3,1002) 1 row created. SQL> insert into prepared by values('&date',&s id,&c id); Enter value for date: Enter value for s id: 4 Enter value for c id: 1005 1: insert into prepared by values('&date',&s id,&c id) old new 1: insert into prepared by values('',4,1005) 1 row created. SQL> insert into prepared\_by values('&date',&s\_id,&c\_id); Enter value for date: Enter value for s id: 5 Enter value for c id: 1001 1: insert into prepared by values('&date',&s id,&c id) old 1: insert into prepared by values('',5,1001) 1 row created.

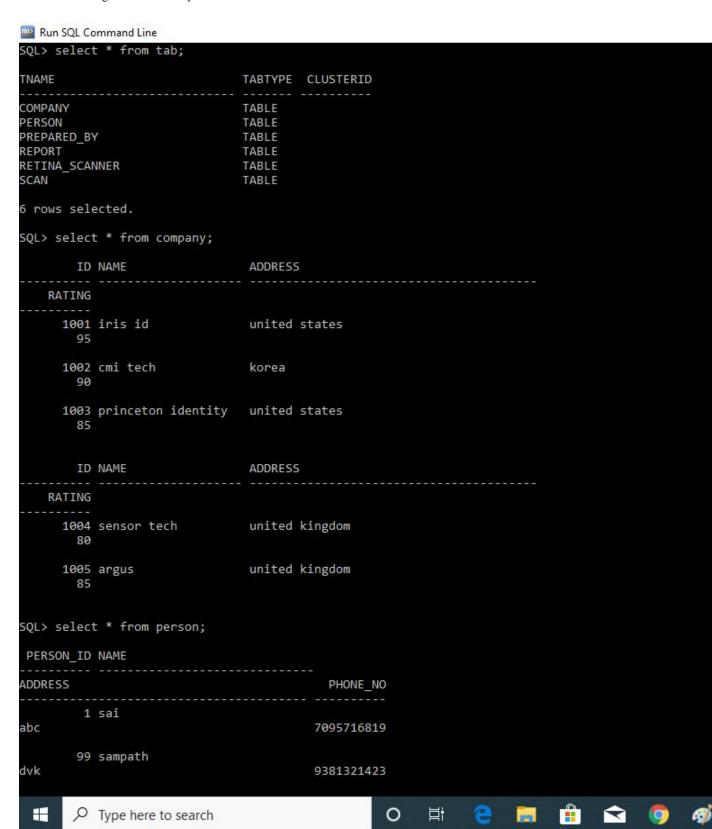
0

Name: S.Sai Rohith Roll Number: 1602-18-737-098

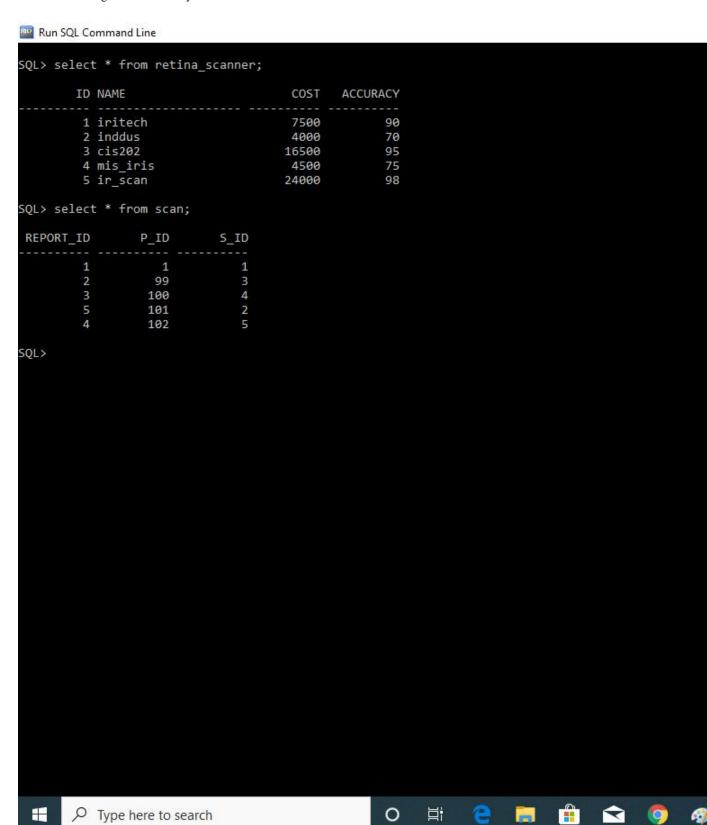
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```
Run SOL Command Line
     1: insert into prepared_by values('&date',&s_id,&c_id)
1: insert into prepared_by values('',1,1003)
new
1 row created.
SQL> insert into prepared by values('&date',&s id,&c id);
Enter value for date:
Enter value for s_id: 2
Enter value for c_id: 1004
old 1: insert into prepared_by values('&date',&s_id,&c_id)
new 1: insert into prepared_by values('',2,1004)
1 row created.
SQL> insert into prepared by values('&date',&s_id,&c_id);
Enter value for date:
Enter value for s id: 3
Enter value for c id: 1002
old 1: insert into prepared by values('&date',&s id,&c id)
    1: insert into prepared by values('',3,1002)
1 row created.
SQL> insert into prepared_by values('&date',&s_id,&c_id);
Enter value for date:
Enter value for s id: 4
Enter value for c_id: 1005
old 1: insert into prepared_by values('&date',&s_id,&c_id)
    1: insert into prepared_by values('',4,1005)
1 row created.
SQL> insert into prepared_by values('&date',&s_id,&c_id);
Enter value for date:
Enter value for s_id: 5
Enter value for c_id: 1001
old 1: insert into prepared_by values('&date',&s_id,&c_id)
new 1: insert into prepared by values('',5,1001)
1 row created.
SQL> select * from prepared by;
DAY
                S_ID
                            C_ID
                   1
                            1003
                    2
                            1004
                            1002
                   3
                   4
                            1005
                    5
                            1001
SQL>
                                                                 e 🚃
                                                                               世i
                                                                                     Type here to search
                                                      0
```

```
Run SOL Command Line
old 1: insert into report values(&r_id,'&colour',&retina_ratio,&age,&person_id)
new 1: insert into report values(2003,'blue',2.20,2,)
insert into report values(2003, blue',2.20,2,)
ERROR at line 1:
ORA-00936: missing expression
SQL> insert into report values(&r_id,'&colour',&retina_ratio,&age,&person id);
Enter value for r id: 2003
Enter value for colour: blue
Enter value for retina_ratio: 2.20
Enter value for age: 20
Enter value for person_id: 100
old 1: insert into report values(&r_id,'&colour',&retina_ratio,&age,&person_id)
    1: insert into report values(2003, 'blue', 2.20, 20, 100)
1 row created.
SOL> insert into report values(&r id,'&colour',&retina ratio,&age,&person id);
Enter value for r id: 2004
Enter value for colour: brown
Enter value for retina ratio: 2.2065
Enter value for age: 21
Enter value for person id: 101
old 1: insert into report values(&r_id,'&colour',&retina_ratio,&age,&person_id)
new 1: insert into report values(2004,'brown',2.2065,21,101)
1 row created.
SQL> insert into report values(&r_id,'&colour',&retina_ratio,&age,&person_id);
Enter value for r_id: 2005
Enter value for colour: gray
Enter value for retina_ratio: 2.215
Enter value for age: 19
Enter value for person_id: 102
old 1: insert into report values(&r_id,'&colour',&retina_ratio,&age,&person_id)
new 1: insert into report values(2005, 'gray',2.215,19,102)
1 row created.
SQL> select * from report;
     R ID COLOUR
                              RETINA RATIO
                                                  AGE PERSON_ID
  ------
     2001 black
                                       2.25 18
2.25 18
                                                                1
                                      2.25
      2002 brown
                                                               99
                                                    20
      2003 blue
                                        2.2
                                                               100
      2004 brown
                                                     21
                                                               101
                                      2.2065
      2005 gray
                                       2.215
                                                     19
                                                               102
SQL>
                                                         Ħ
                                                                                 0
                                                                   P Type here to search
```



#### Run SQL Command Line SQL> select \* from person; PERSON\_ID NAME ADDRESS PHONE NO 1 sai abc 7095716819 99 sampath dvk 9381321423 100 vignesh sathupally 9505673198 PERSON\_ID NAME ADDRESS PHONE NO 101 susheel attapur 9121497115 102 samson hanamkonda 9505663097 SQL> select \* from prepared\_by; DAY S\_ID C\_ID 1 1003 2 1004 3 1002 4 1005 5 1001 SQL> select \* from report; R\_ID COLOUR RETINA\_RATIO AGE PERSON\_ID 2.25 18 1 2.25 18 99 2.2 20 100 2.2065 21 101 2.215 19 102 2001 black 2002 brown 2003 blue 2004 brown 2005 gray SQL> select \* from retina\_scanner; ID NAME COST ACCURACY 7500 1 iritech 90 ∠ Type here to search Ħ 🔁 🤚 0



#### 4. Implementation

#### Front end programs:

#### 1)Insert a Company:

```
package company;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
import javax.swing.JOptionPane;
public class AddCompany extends Panel
     Button AddCompanyButton;
     TextField sidText, snameText, ratingText, addressText;
     TextArea errorText;
     Connection connection;
     Statement statement;
     public AddCompany()
          try
               Class.forName("oracle.jdbc.driver.OracleDriver");
          catch (Exception e)
                System.err.println("Unable to find and load
driver");
                System.exit(1);
```

```
connectToDB();
     public void connectToDB()
          try
                                      connection
DriverManager.getConnection("idbc:oracle:thin:@localhost:1521:
xe", "assingment", "vasavi");
            statement = connection.createStatement();
            statement.executeUpdate("commit");
          catch (SQLException connectException)
            System.out.println(connectException.getMessage());
System.out.println(connectException.getSQLState());
System.out.println(connectException.getErrorCode());
            System.exit(1);
     public void buildGUI()
          //Handle Insert Account Button
          AddCompanyButton = new Button("Add Company");
          AddCompanyButton.addActionListener(new
ActionListener()
               public void actionPerformed(ActionEvent e)
                     try
```

```
if(Integer.getInteger(sidText.getText())==null)
                                throw
                                                           new
NumberFormatException();
//Double.getDouble(ratingText.getText());
                       //String query = "INSERT INTO company
(ID,NAME,Address,RATING) VALUES
                                                     rohith','abc
                                            (2,'sai
colony',20)";
                        String query= "INSERT INTO company
VALUES(" + sidText.getText() + ", " + """ + snameText.getText() +
"","" + addressText.getText() + ""," + ratingText.getText() + ")";
                       int i = statement.executeUpdate(query);
                       statement.executeUpdate("commit");
                         errorText.append("\nInserted " + i + "
rows successfully");
                     catch (SQLException insertException)
                       displaySQLErrors(insertException);
                     catch(Exception ex)
                          JOptionPane.showMessageDialog(null,
"sid should be only a number");
          });
          sidText=new TextField(15);
          snameText = new TextField(15);
          ratingText = new TextField(15);
```

Name: S.Sai Rohith Roll Number: 1602-18-737-098

addressText = **new** TextField(15);

```
errorText = new TextArea(10, 40);
 errorText.setEditable(false);
 Panel first = new Panel();
 first.setLayout(new GridLayout(4, 2));
 first.add(new Label("Company ID:"));
 first.add(sidText);
 first.add(new Label("Name:"));
 first.add(snameText);
 first.add(new Label("Rating:"));
 first.add(ratingText);
 first.add(new Label("Address:"));
 first.add(addressText);
 first.setBounds(125,90,200,100);
 Panel second = new Panel(new GridLayout(4, 1));
 second.add(AddCompanyButton);
second.setBounds(125,220,150,100);
 Panel third = new Panel();
 third.add(errorText);
 third.setBounds(125,320,300,200);
 setLayout(null);
 add(first);
 add(second);
 add(third);
 setSize(500, 600);
 setVisible(true);
 System.out.println("hello");
```

## 2) Update a Company:

```
package company;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
public class UpdateCompany extends Panel
{
    Button updateCompanyButton;
    List companyIDList;
```

```
TextField sidText, snameText, ratingText, addressText;
     TextArea errorText;
     Connection connection;
     Statement statement;
     ResultSet rs;
     public UpdateCompany()
          try
     Class.forName("oracle.jdbc.driver.OracleDriver");
          catch (Exception e)
           {
                System.err.println("Unable to find and load
driver");
                System.exit(1);
          connectToDB();
```

```
public void connectToDB()
          try
                                       connection
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:
xe","assingment","vasavi");
             statement = connection.createStatement();
          catch (SQLException connectException)
             System.out.println(connectException.getMessage());
System.out.println(connectException.getSQLState());
System.out.println(connectException.getErrorCode());
             System.exit(1);
```

```
public void loadCompanies()
          try
          {
               companyIDList.removeAll();
             rs = statement.executeQuery("SELECT ID FROM
company");
            while (rs.next())
               companyIDList.add(rs.getString("ID"));
          catch (SQLException e)
            displaySQLErrors(e);
     public void buildGUI()
         companyIDList = new List(10);
```

```
loadCompanies();
          add(companyIDList);
          companyIDList.addItemListener(new ItemListener()
           {
               public void itemStateChanged(ItemEvent e)
                     try
                          rs
statement.executeQuery("SELECT * FROM company where ID
="+companyIDList.getSelectedItem());
                          rs.next();
                          sidText.setText(rs.getString("ID"));
     snameText.setText(rs.getString("NAME"));
     ratingText.setText(rs.getString("RATING"));
     addressText.setText(rs.getString("address"));
                     catch (SQLException selectException)
```

```
displaySQLErrors(selectException);
                    }
          });
          updateCompanyButton =
                                              Button("Update
                                       new
Company");
          updateCompanyButton.addActionListener(new
ActionListener()
               public void actionPerformed(ActionEvent e)
                    try
                         Statement
                                           statement
connection.createStatement();
                                           i
                         int
statement.executeUpdate("UPDATE company "
                         + "SET name="" + snameText.getText()
```

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```
+ "rating=" + ratingText.getText() + ",
                           + "address =""+ addressText.getText()
+ "" WHERE id = "
                           + companyIDList.getSelectedItem());
                           errorText.append("\nUpdated " + i + "
rows successfully");
                                                                =
statement.executeUpdate("commit");
                           loadCompanies();
                      }
                      catch (SQLException insertException)
                      {
                           displaySQLErrors(insertException);
                      }
                }
           });
           sidText = new TextField(15);
           sidText.setEditable(false);
           snameText = new TextField(15);
```

```
ratingText = new TextField(15);
addressText = new TextField(15);
errorText = new TextArea(10, 40);
errorText.setEditable(false);
Panel first = new Panel();
first.setLayout(new GridLayout(4, 2));
first.add(new Label("Company ID:"));
first.add(sidText);
first.add(new Label("Name:"));
first.add(snameText);
first.add(new Label("Rating:"));
first.add(ratingText);
first.add(new Label("Address:"));
first.add(addressText);
Panel second = new Panel(new GridLayout(4, 1));
second.add(updateCompanyButton);
Panel third = new Panel();
```

```
third.add(errorText);
          add(first);
          add(second);
          add(third);
          setSize(500, 600);
          setLayout(new FlowLayout());
          setVisible(true);
     private void displaySQLErrors(SQLException e)
     {
          errorText.append("\nSQLException: " + e.getMessage()
+ "\n");
          errorText.append("SQLState: " + e.getSQLState()
+ "\n");
          errorText.append("VendorError: " + e.getErrorCode()
+ "\n");
```

}

## 3)Delete a Company

```
package company;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
public class DeleteCompany extends Panel
{
    Button deleteCompanyButton;
    List companiesIDList;
    TextField sidText, snameText, ratingText, addressText;
    TextArea errorText;
    Connection connection;
    Statement statement;
    ResultSet rs;
```

```
public DeleteCompany()
          try
     Class.forName("oracle.jdbc.driver.OracleDriver");
           }
          catch (Exception e)
                System.err.println("Unable to find and load
driver");
                System.exit(1);
          connectToDB();
     public void connectToDB()
          try
```

```
connection
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:
xe", "assingment", "vasavi");
             statement = connection.createStatement();
           }
           catch (SQLException connectException)
           {
             System.out.println(connectException.getMessage());
System.out.println(connectException.getSQLState());
System.out.println(connectException.getErrorCode());
             System.exit(1);
     }
     public void loadCompanies()
           try
```

```
companiesIDList.removeAll();
              rs = statement.executeQuery("SELECT * FROM
company");
             while (rs.next())
             {
                companiesIDList.add(rs.getString("ID"));
          catch (SQLException e)
             displaySQLErrors(e);
     public void buildGUI()
          companiesIDList = new List(10);
          loadCompanies();
          add(companiesIDList);
          //When a list item is selected populate the text fields
```

```
companiesIDList.addItemListener(new ItemListener()
           {
                public void itemStateChanged(ItemEvent e)
                {
                     try
                           rs
statement.executeQuery("SELECT * FROM company");
                           while (rs.next())
                                if
(rs.getString("ID").equals(companiesIDList.getSelectedItem()))
                                break;
                           }
                           if (!rs.isAfterLast())
     sidText.setText(rs.getString("ID"));
     snameText.setText(rs.getString("NAME"));
     ratingText.setText(rs.getString("RATING"));
```

```
addressText.setText(rs.getString("Address"));
                     }
                    catch (SQLException selectException)
                     {
                          displaySQLErrors(selectException);
          });
          deleteCompanyButton
                                                Button("Delete
                                        new
Company");
          deleteCompanyButton.addActionListener(new
ActionListener()
          {
               public void actionPerformed(ActionEvent e)
                {
                    try
```

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```
Statement
                                             statement
connection.createStatement();
                           int
statement.executeUpdate("DELETE FROM company WHERE ID
= "
                                     +
companiesIDList.getSelectedItem());
                           errorText.append("\nDeleted " + i + "
rows successfully");
                           sidText.setText(null);
                           snameText.setText(null);
                           ratingText.setText(null);
                           addressText.setText(null);
                           statement.executeUpdate("commit");
                           loadCompanies();
                     }
                     catch (SQLException insertException)
                     {
                           displaySQLErrors(insertException);
           });
```

```
sidText = new TextField(15);
snameText = new TextField(15);
ratingText = new TextField(15);
addressText = new TextField(15);
errorText = new TextArea(10, 40);
errorText.setEditable(false);
Panel first = new Panel();
first.setLayout(new GridLayout(4, 2));
first.add(new Label("Company ID:"));
first.add(sidText);
first.add(new Label("Name:"));
first.add(snameText);
first.add(new Label("Rating:"));
first.add(ratingText);
first.add(new Label("Address:"));
first.add(addressText);
Panel second = new Panel(new GridLayout(4, 1));
```

```
second.add(deleteCompanyButton);
          Panel third = new Panel();
          third.add(errorText);
          add(first);
          add(second);
          add(third);
          setSize(450, 600);
          setLayout(new FlowLayout());
          setVisible(true);
     }
     private void displaySQLErrors(SQLException e)
          errorText.append("\nSQLException: " + e.getMessage()
+ "\n");
```

```
errorText.append("SQLState: " + e.getSQLState()
+ "\n");

errorText.append("VendorError: " + e.getErrorCode()
+ "\n");
}
```

# 4) Main Front End Application

```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.JOptionPane;
import company.*;
```

```
import person. AddPerson;
import person. DeletePerson;
import person. Update Person;
import report. AddReport;
import report. DeleteReport;
import report. Update Report;
import scanner. AddScanner;
import scanner. Delete Scanner;
import scanner. UpdateScanner;
; class frontPage extends JFrame implements ActionListener
{
       String msg = "";
       Label II;
       CardLayout cardLO;
       AddCompany add;
       UpdateCompany ups;
       DeleteCompany dels;
       AddPerson addP;
       UpdatePerson upP;
       DeletePerson delP;
```

```
AddScanner addS;
       UpdateScanner upS;
       DeleteScanner delS;
       AddReport addR;
       DeleteReport delR;
       UpdateReport upR;
       Panel home, welcome;
       public frontPage()
       {
               cardLO = new CardLayout();
               home = new Panel();
               home.setLayout(cardLO);
               ll = new Label();
               ll.setAlignment(Label.CENTER);
               ll.setText("Welcome
                                          Retina
                                     to
                                                   based
                                                            age
classigication System database");
```

```
welcome = new Panel();
welcome.add(l1);
add=new AddCompany();add.buildGUI();
ups = new UpdateCompany();
                             ups.buildGUI();
dels = new DeleteCompany();
                              dels.buildGUI();
addP = new AddPerson();addP.buildGUI();
upP = new UpdatePerson();upP.buildGUI();
delP=new DeletePerson();delP.buildGUI();
addS=new AddScanner();addS.buildGUI();
upS=new UpdateScanner();upS.buildGUI();
delS=new DeleteScanner();delS.buildGUI();
addR=new AddReport();addR.buildGUI();
delR=new DeleteReport();delR.buildGUI();
upR=new UpdateReport();upR.buildGUI();
home.add(welcome, "Welcome");
home.add(add, "Add Company");
home.add(ups, "Update Company");
home.add(dels, "Delete Company");
```

```
home.add(addP, "Add Person");
              home.add(upP, "Update Person");
              home.add(delP,"Delete Person");
              home.add(addS,"Add Scanner");
              home.add(upS,"Update Scanner");
              home.add(delS,"Delete Scanner");
              home.add(addR,"Add Report");
              home.add(delR,"Delete Report");
              home.add(upR,"Update Report");
              add(home);
              MenuBar mbar = new MenuBar();
              setMenuBar(mbar);
              Menu Compnay = new Menu("Company");
              MenuItem item1, item2, item3;
              Compnay.add(item1
                                            MenuItem("Add
                                      new
Company"));
              Compnay.add(item2 = new MenuItem("View
Company"));
```

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```
Compnay.add(item3 = new MenuItem("Delete
Company"));
               mbar.add(Compnay);
               Menu Scanner = new Menu("Scanner");
               MenuItem item4, item5, item6;
               Scanner.add(item4
                                             MenuItem("Add
                                      new
Scanner"));
               Scanner.add(item5
                                            MenuItem("View
                                      new
Scanners"));
               Scanner.add(item6 = new MenuItem("Delete
Scanner"));
               mbar.add(Scanner);
               Menu Person = new Menu("Person");
               MenuItem item7, item8, item9;
               Person.add(item7
                                             MenuItem("Add
                                      new
Person"));
               Person.add(item8
                                            MenuItem("View
                                     new
Persons"));
               Person.add(item9
                                           MenuItem("Delete
                                    new
Person"));
               mbar.add(Person);
```

```
Menu Report = new Menu("Report");
                MenuItem item10, item11, item12;
                                                MenuItem("Add
                Report.add(item10
                                         new
Report"));
                Report.add(item11
                                               MenuItem("View
                                        new
Report"));
                Report.add(item12
                                    = new MenuItem("Delete
Report"));
                mbar.add(Report);
                item1.addActionListener(this);
                item2.addActionListener(this);
                item3.addActionListener(this);
                item4.addActionListener(this);
                item5.addActionListener(this);
                item6.addActionListener(this);
                item7.addActionListener(this);
                item8.addActionListener(this);
                item9.addActionListener(this);
                item10.addActionListener(this);
                item11.addActionListener(this);
```

### item12.addActionListener(this);

```
addWindowListener(new WindowAdapter(){
                    public void windowClosing(WindowEvent
we)
                     {
                          quitApp();
               });
               setTitle("Retina
                                        Age Classification
                                 Based
System");
               setSize(500, 600);
               setVisible(true);
       }
       public void actionPerformed(ActionEvent ae)
       {
            String arg = ae.getActionCommand();
```

```
if(arg.equals("Add Company"))
 {
    cardLO.show(home, "Add Company");
}
else if(arg.equals("View Company"))
{
    cardLO.show(home, "Update Company");
    ups.loadCompanies();
}
else if(arg.equals("Delete Company"))
{
    cardLO.show(home, "Delete Company");
    dels.loadCompanies();
}
else if(arg.equals("Add Person"))
{
```

```
cardLO.show(home, "Add Person");
}
else if(arg.equals("View Persons"))
{
    cardLO.show(home, "Update Person");
    upP.loadPersons();
}
else if(arg.equals("Delete Person"))
{
    cardLO.show(home, "Delete Person");
    delP.loadPersons();
else if(arg.equals("Add Scanner"))
{
    cardLO.show(home, "Add Scanner");
}
else if(arg.equals("View Scanners"))
{
    cardLO.show(home, "Update Scanner");
    upS.loadScanners();
```

```
else if(arg.equals("Delete Scanner"))
{
    cardLO.show(home, "Delete Scanner");
    delS.loadScanners();
}
else if(arg.equals("Add Report"))
{
    cardLO.show(home, "Add Report");
else if(arg.equals("Delete Report"))
{
    cardLO.show(home, "Delete Report");
    delR.loadReports();
else if(arg.equals("View Report"))
{
    cardLO.show(home, "Update Report");
    upR.loadReports();
```

```
}
       private void quitApp () {
               try {
                                         reply
                         int
JOptionPane.showConfirmDialog (this,
                              "Are
                                     you really
                                                    want
                                                           to
exit\nFrom ReTina Scanner System?",
                              "RetinaSystem -
                                                       Exit",
JOptionPane.YES NO OPTION,
JOptionPane.PLAIN MESSAGE);
                         if
                                        (reply
JOptionPane.YES OPTION) {
                         setVisible (false);
                         dispose();
                         System.out.println ("Thanks for Using
Retina based age classification System\nAuthor - sai rohith
sheela");
                         System.exit (0);
                         }
```

```
else if (reply == JOptionPane.NO_OPTION)
{
     setDefaultCloseOperation(JFrame.DO\_NOTHING\_ON\_CL
OSE);
                }
                catch (Exception e) {}
       public static void main(String ... args)
        {
               new frontPage();
```

# **5.**Connectivity with the Database:

Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

### **Block of code for JAVA- SQL connectivity with JDBC:**

```
public void connectToDB()
         try
                                  connection
DriverManager.getConnection("jdbc:oracle:thin:@localhos
t:1521:xe", "assingment", "vasavi");
            statement = connection.createStatement();
         catch (SQLException connectException)
System.out.println(connectException.getMessage());
System.out.println(connectException.getSQLState());
System.out.println(connectException.getErrorCode());
            System.exit(1);
```

```
DBMS ASSIGNMENT -2
Title: Iris based age classification system
}
```

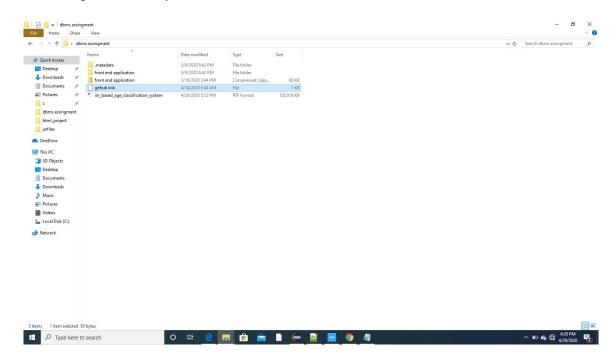
### **6.GITHUB LINK:**

https://github.com/sheelasairohith/dbma\_assingment

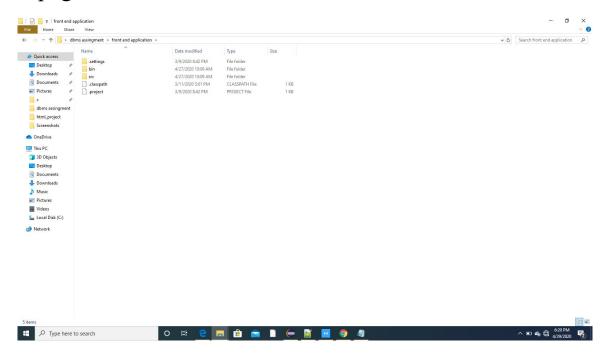
#### 7. Folder Structure:

This project contains a folder named src in which it has 1 .java files which belongs to main front end application and this src folder contains 4 additional folders where each folder contains code to insert, delete, update for erquried tables present in the backend. By which we can navigate easily to reach the java code and we can make changes easily.

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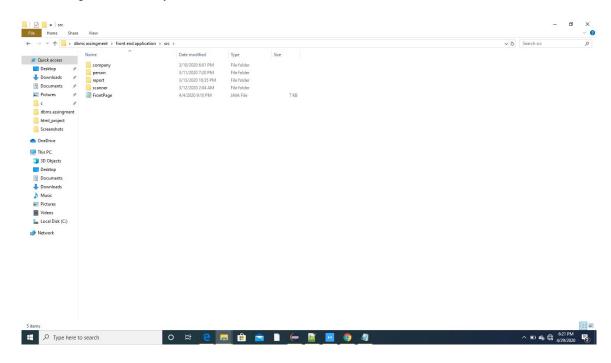


NOTE: in this select front end application folder to see next page.

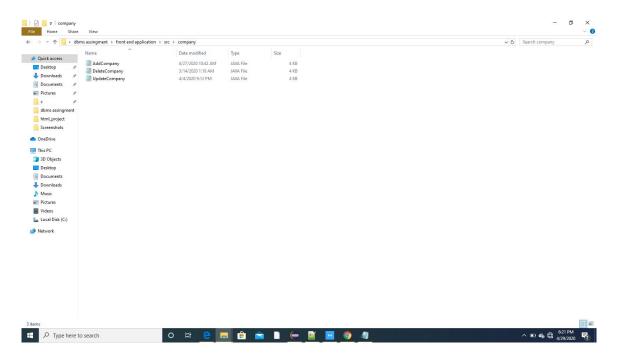


NOTE: now select src to view below folders.

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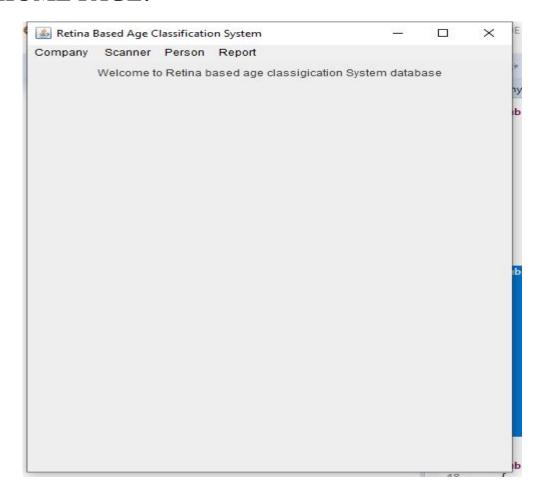
NOTE: in this each folder contains 3 .java files for example if you select folder called company then it will be like..



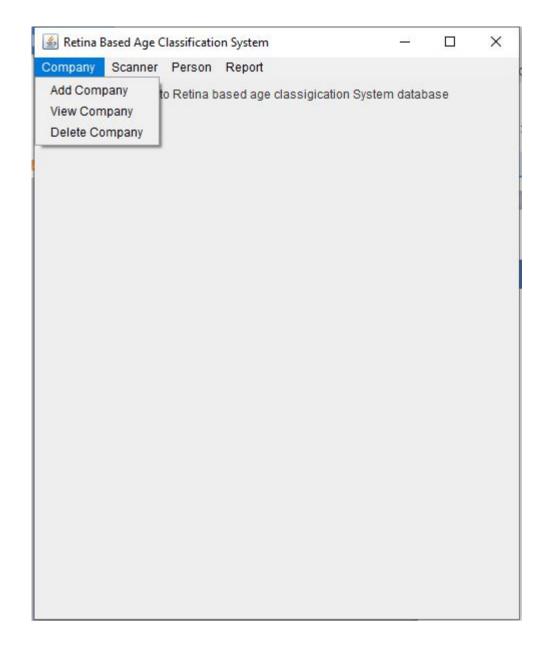
#### 8.TESTING

The program runs for execution of three basic operations of insertion, update and delete on 5 different table. Along with this, it also has a output column which gives the information about how many rows have been edited. Errors, syntactical or exceptional will be shown if occurred.

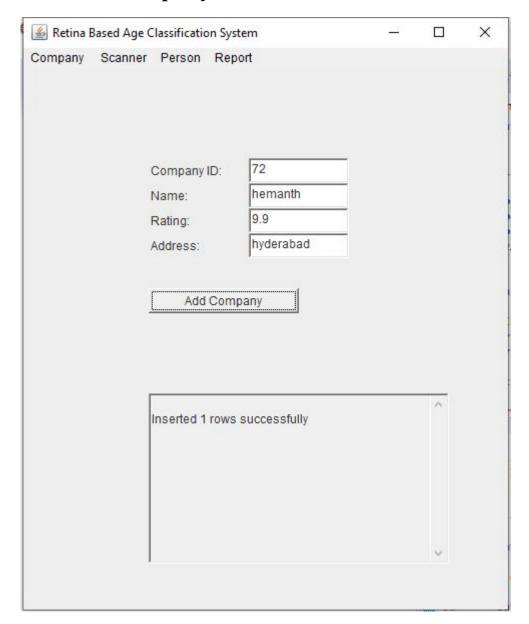
### **HOME PAGE:**



Title: Iris based age classification system



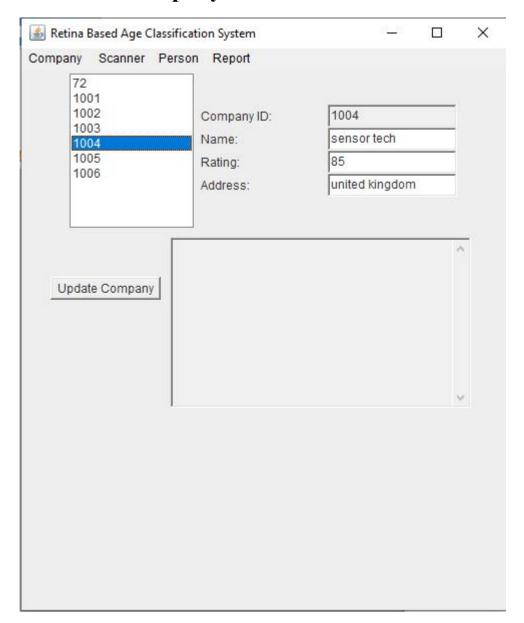
## **INSERT Company:**



DBMS ASSIGNMENT -2 Title: Iris based age classification system

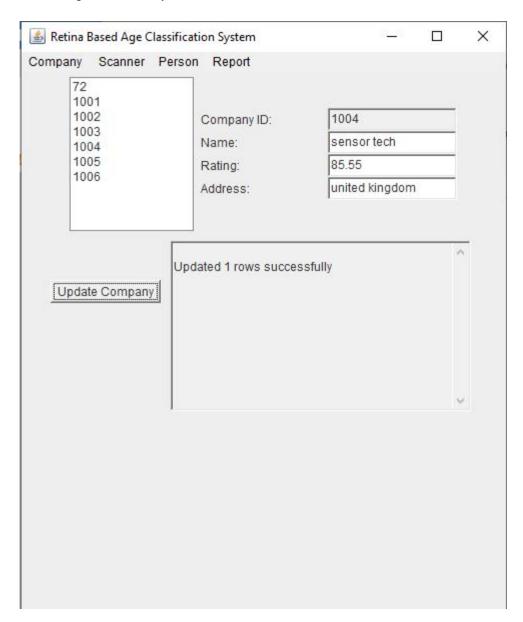
SQL> select	t * from company;	
ID	NAME	ADDRESS
RATING		
1001 95	iris id	united states
1002 90	cmi tech	korea
1003 85	princeton identity	united states
ID	NAME	ADDRESS
RATING		
1004 85	sensor tech	united kingdom
1005 85	argus	united kingdom
1006 98.5	anoop	hyd
ID	NAME	ADDRESS
RATING		
9.99	hemanth	hyderabad
7 rows sele	ected.	
SQL>		

## **UPDATE Company:**



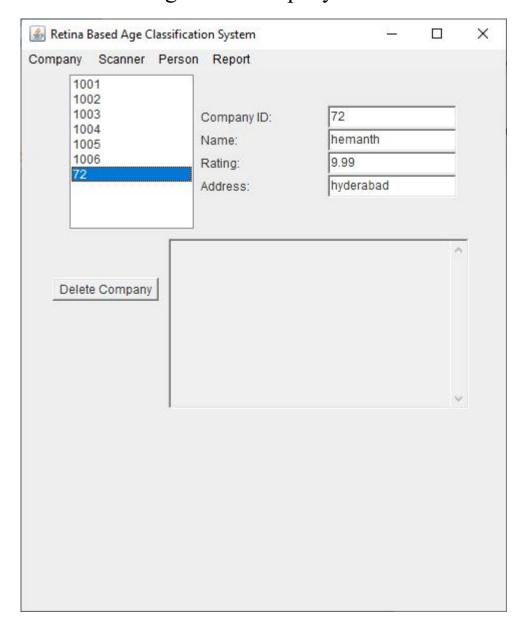
DBMS ASSIGNMENT -2

Title: Iris based age classification system

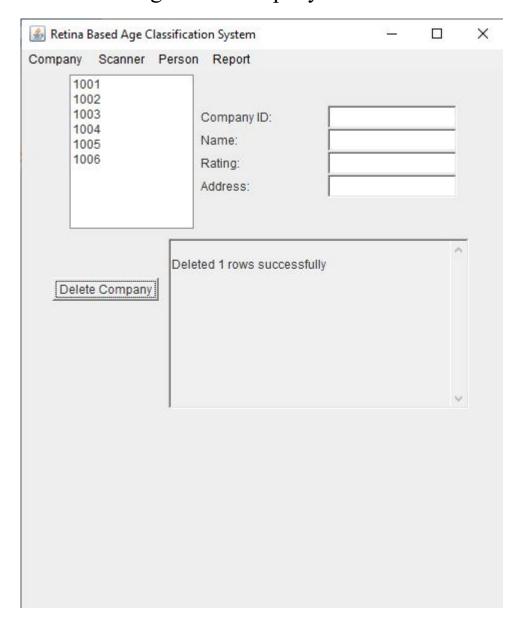


### **DELETE Company:**

# Before selecting delete company button:



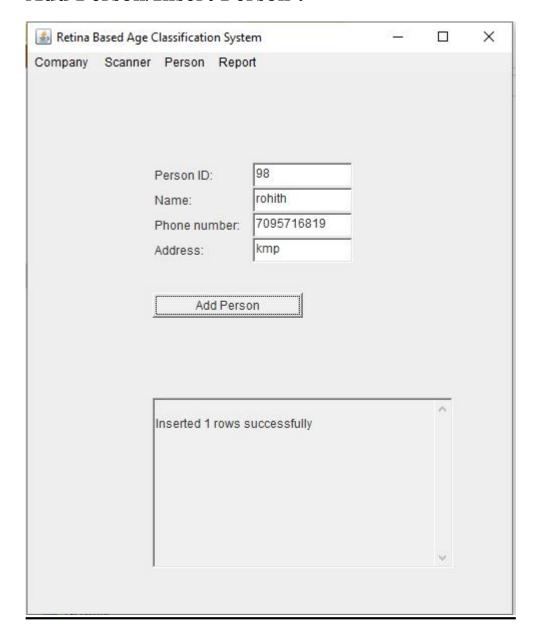
# After selecting delete company button:



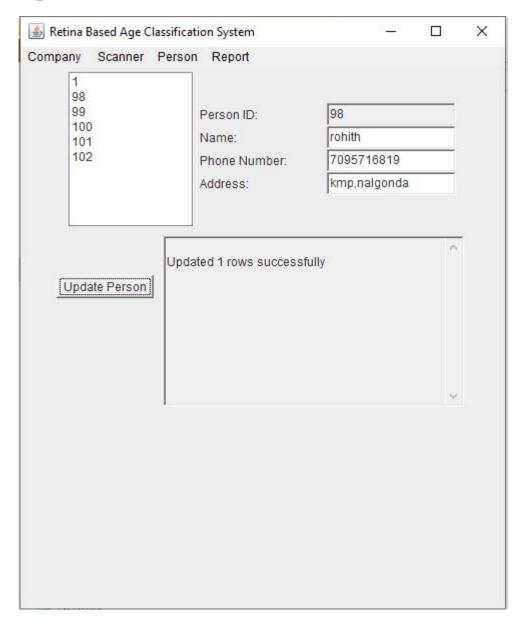
DBMS ASSIGNMENT -2 Title: Iris based age classification system

ID	NAME	ADDRESS
RATING		
1001 95	iris id	united states
1002 90	cmi tech	korea
1003 85	princeton identity	united states
ID	NAME	ADDRESS
RATING		
1004 85.55	sensor tech	united kingdom
1005 85	argus	united kingdom
1006 98.5	anoop	hyd
rows sele	ected.	

#### Add Person/Insert Person:

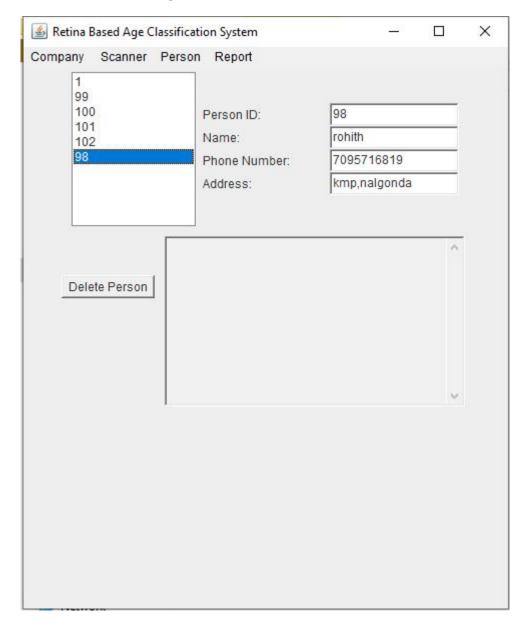


## **Update Person:**

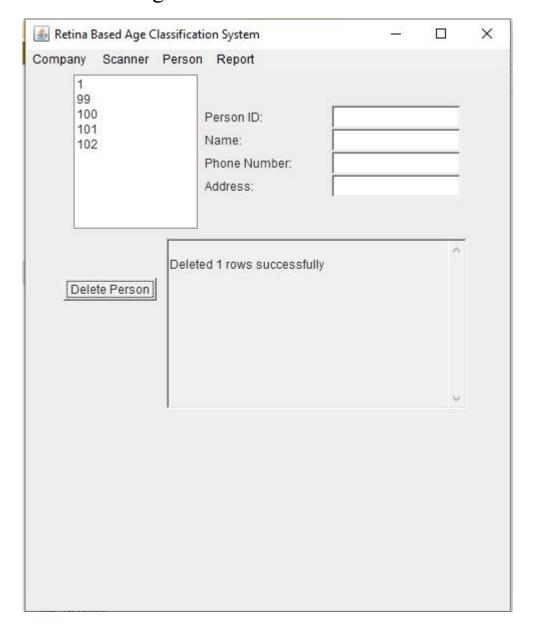


#### **Delete Person:**

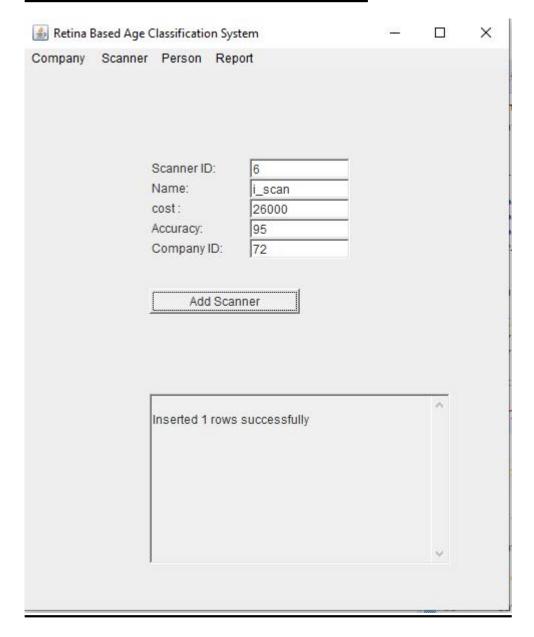
# Before selecting delete button:



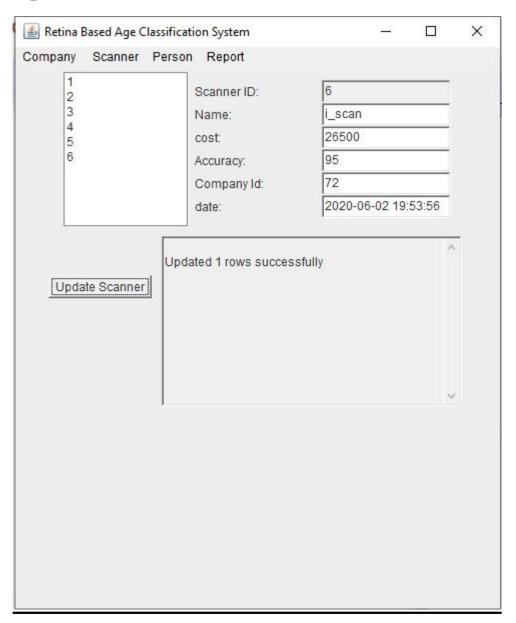
# After selecting delete button:



## **Add Scanner/Insert new scanner:**

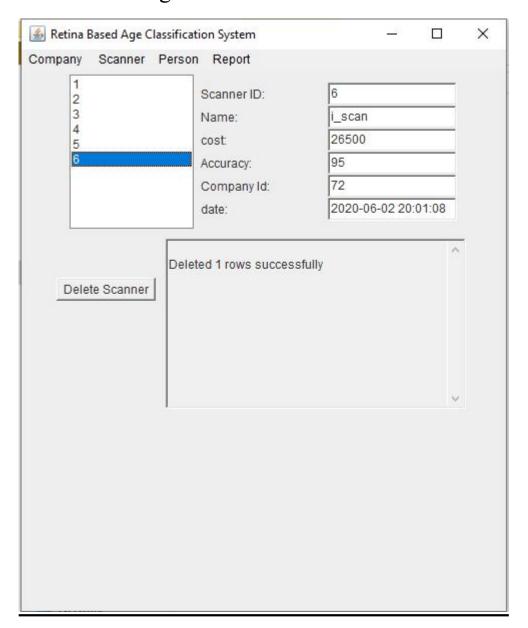


# **Update Scanner:**

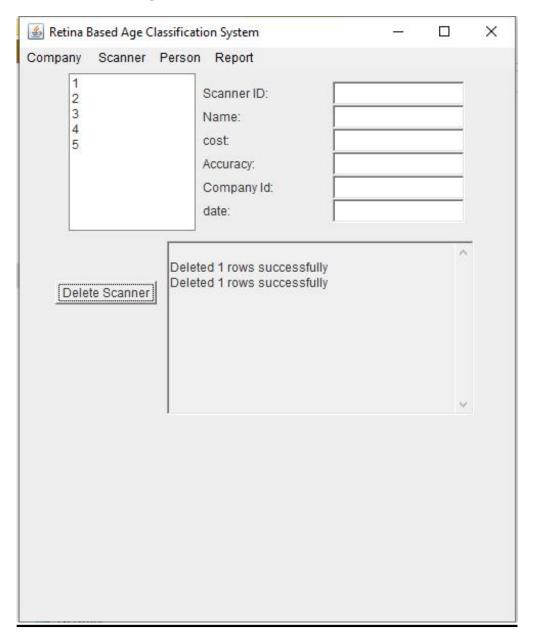


### **Delete Scanner:**

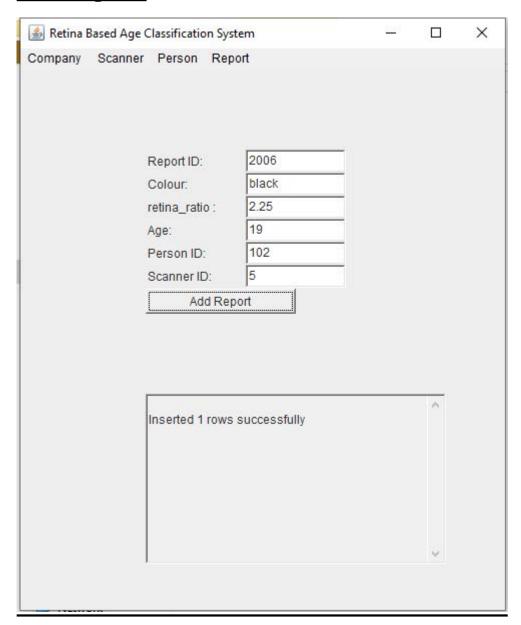
# before selecting delete button:



## After selecting delete button:



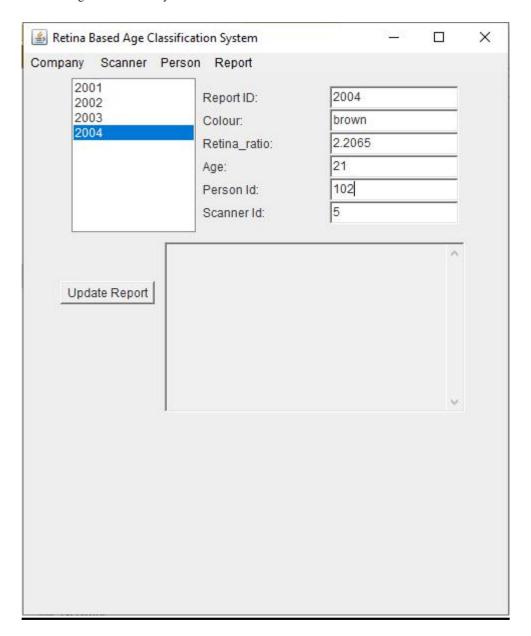
# **Add Report:**



### **Update Report:**

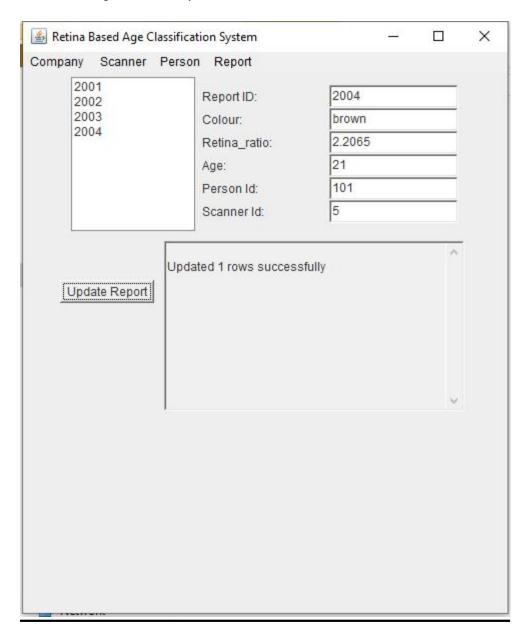
#### DBMS ASSIGNMENT -2

Title: Iris based age classification system



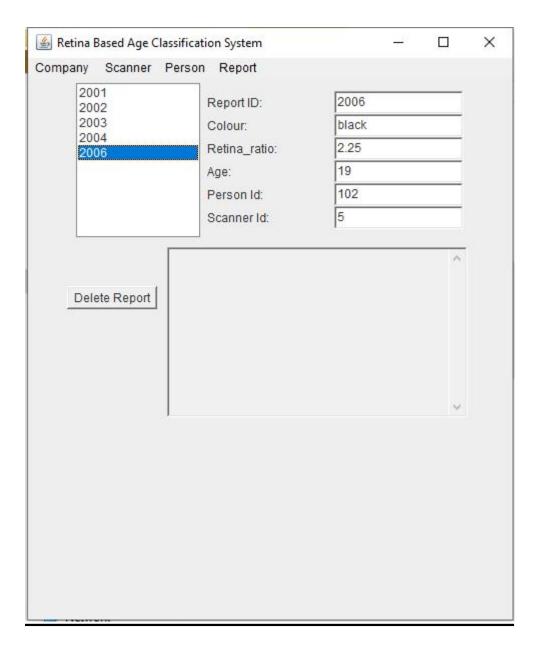
DBMS ASSIGNMENT -2

Title: Iris based age classification system



# **Delete Report:**

# Before selecting delete button:



# After selecting delete button:

Company Scanner Person Report    2001
Deleted 1 rows successfully

#### 9.Extra features present in the application:

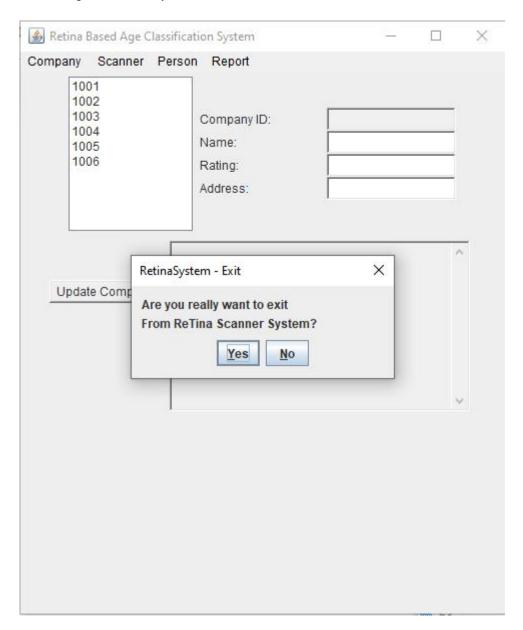
- 1) Many times unknowingly we may give mismatching data types in the text fields like id's, etc. So in this application we will show warning to the users when they give wrong data with the help of jOptionPane present in the swing package.
- 2) Many times unknowingly we may click exit button and then we realize we have clicked exit and we need to start the work from first. To avoid this problem when a user click exit opion we will show a option like do you really want to exit if he click yes then only we will close the application.

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10.RESULT: (all screenshots of all dml operations are already kept)

The process of entering information into the frame created by java code so that the data is reflected in the database using JDBC connectivity is done successfully.

#### 11.DISCUSSION AND FUTURE WORK! :

The application till now done is a basic interface in which a user—can enter his details and check the required persons report based on his interest. So this project can be used for fixed place i.e fixed start place and fixed destination place. So in future the project will be edited in such a manner that the age is calculated automatically based on the updated data set that is provided.

#### REFERENCES

- 1.<u>http://sociallearningcommunity.com/10-of-the-best-mooc-providers/</u>
- 2.<u>https://en.wikipedia.org/wiki/List\_of\_MOOC\_provider</u>
  <u>s</u>
  - 3.https://github.com/sheelasairohith/dbma assingment