

Εργαστήριο Βάσεις Δεδομένων

PROJECT
2022-2023

Μαύρα Πολυδώρου AM:1064885
Φίλιππος Πάτιος AM:1067366

Περιεχόμενα

1. Εισαγωγή	2
2. Μέρος Α	2
2.1 Σχεσιακό Διάγραμμα	3
2.2 Stored Procedures	22
2.3 Triggers	33
3. Μέρος Β	46
3.1 Σενάριο Χρήσης GUI	46
3.2 Κώδικας για το GUI	46

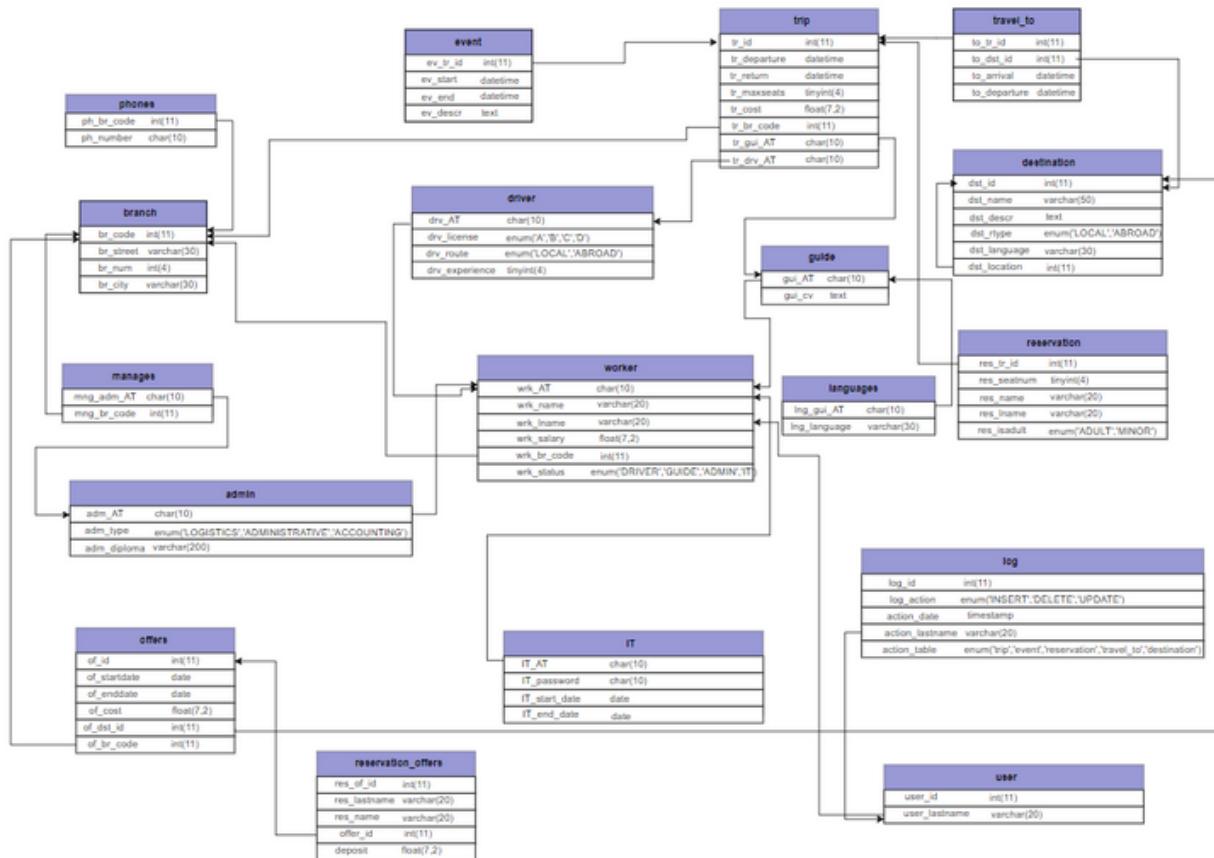
1. Εισαγωγή

Στην παρούσα εργασία αναλύεται η υλοποίηση της βάσης δεδομένων ενός πρακτορείου ταξιδιών (travel_agency) που ζητήθηκε, στο πλαίσιο του εργαστηρίου Βάσεις Δεδομένων.

Το περιβάλλον στο οποίο αναπτύχθηκε η βάση είναι το Wampserver (MySQL), ενώ το GUI σχεδιάστηκε στο NetBeans σε Java. Τέλος, όπως θα αναλυθεί παρακάτω για την εισαγωγή 60000 εγγραφών στον πίνακα reservation_offers δημιουργήθηκε ένα script σε γλώσσα Python.

2. Μέρος Α

2.1 Σχεσιακό Διάγραμμα



Παραδοχές:

- Στον πίνακα worker προστέθηκε ένα πεδίο (ENUM) με το όνομα wrk_status, που αφορά το είδος της εργασίας του κάθε υπαλλήλου. Η εισαγωγή αυτού του πεδίου έγινε για καλύτερη διαχείριση της βάσης
- Δημιουργήθηκαν οι πίνακες offers, reservation_offers σύμφωνα με τις προδιαγραφές της εκφώνησης
- Δημιουργήθηκε ο πίνακας IT που αφορά όλους τους υπεύθυνους πληροφορικής του πρακτορείου. Ο πίνακας αυτός έχει συνδεθεί με τον πίνακα worker μέσω του ξένου κλειδιού του (IT_AT), ενώ για να μην μπορούν να συνδεθούν στην βάση οι υπεύθυνοι πληροφορικής που δεν εργάζονται πια στο πρακτορείο, τα στοιχεία τους υπάρχουν στον πίνακα IT και όχι στον πίνακα worker
- Δημιουργήθηκε ο πίνακας log, στον οποίο κρατούνται όλα τα στοιχεία που ζητούνται και αφορούν τις ενέργειες του υπεύθυνου πληροφορικής (IT)

- Για να μπορέσει να πυροδοτηθεί το αντίστοιχο trigger που θα αναλυθεί παρακάτω και να γίνει εισαγωγή στον πίνακα log, η μέθοδος που σκεφτήκαμε να ακολουθήσουμε είναι πως μέσω του gui θα παίρνουμε τα στοιχεία(lastname) του IT που συνδέθηκε στο σύστημα και θα τα εισάγουμε σε έναν νέο πίνακα που δημιουργήσαμε (user) . Από αυτό τον πίνακα θα μπορέσει να παίρνει το trigger το επίθετο του IT και να κάνει την εισαγωγή στον πίνακα log
- Λόγω του μεγάλου όγκου εισαγωγών που ζητήθηκε στον πίνακα reservation_offers, γράψαμε τον παρακάτω κώδικα. Τρέξαμε τον κώδικα τρεις φορές για τα 3 offers ταξιδιών που καταχωρήσαμε στον πίνακα. Κάθε φορά αντικαθιστούσαμε στον πεδίο τιμών του query τον αντίστοιχο κωδικό του ταξιδιού (1,2,3) και γινόταν εισαγωγή 20000 γραμμών στον πίνακα για το κάθε ένα

```

import mysql.connector
from faker import Faker
import random

# DB
db_config = {
    'user': 'root',
    'password': '',
    'host': 'localhost',
    'database': 'travel_agency'
}

# DB connection
db_connection = mysql.connector.connect(**db_config)
cursor = db_connection.cursor()

# Number of records
num_records = 20000

# create a Faker object for fake data
fake = Faker()

# Generate and insert random data
for _ in range(num_records):
    first_name = fake.first_name()
    last_name = fake.last_name()
    deposit = random.randint(50, 200)

    # SQL query to insert data
    insert_query = "INSERT INTO reservation_offers (res_name, res_lastname, deposit, offer_id) VALUES (%s, %s, %s, 3)"
    values = (first_name, last_name, deposit)

    #execute Query
    cursor.execute(insert_query, values)
    db_connection.commit()

print(f"{num_records} records inserted.")

# Close the database connection
cursor.close()
db_connection.close()

```

Κώδικας SQL(CREATE/INSERT)

- CREATE

```
CREATE DATABASE travel_agency;  
.branch  
CREATE TABLE branch  
(  
br_code INT(11) NOT NULL AUTO_INCREMENT,  
br_street VARCHAR(30),  
br_num INT(4),  
br_city VARCHAR(30),  
PRIMARY KEY (br_code)  
);
```

```
.phones  
CREATE TABLE phones  
(  
ph_br_code INT(11) NOT NULL,  
ph_number CHAR(10) NOT NULL,  

```

```
.worker  
CREATE TABLE worker  
(  
wrk_AT CHAR(10) NOT NULL,  
wrk_name VARCHAR(20),  
wrk_lname VARCHAR(20),  
wrk_salary FLOAT(7,2),  
wrk_br_code INT(11),  
wrk_status ENUM('DRIVER','GUIDE','ADMIN','IT'),
```

```
PRIMARY KEY (wrk_AT),  
FOREIGN KEY (wrk_br_code) REFERENCES branch(br_code)  
ON DELETE CASCADE ON UPDATE CASCADE  
);
```

```
.admin
CREATE TABLE admin
(
adm_AT CHAR(10) NOT NULL,
adm_type ENUM('LOGISTICS','ADMINISTRATIVE','ACCOUNTING'),
adm_diploma VARCHAR(200),
PRIMARY KEY (adm_AT),
FOREIGN KEY (adm_AT) REFERENCES worker(wrk_AT)
ON DELETE CASCADE ON UPDATE CASCADE
);
```

```
.manages
CREATE TABLE manages
(
mng_adm_AT CHAR(10) NOT NULL,
mng_br_code INT(11) NOT NULL,
PRIMARY KEY (mng_adm_AT,mng_br_code),
FOREIGN KEY (mng_adm_AT) REFERENCES admin(adm_AT)
ON DELETE CASCADE ON UPDATE CASCADE,
FOREIGN KEY (mng_br_code) REFERENCES branch(br_code)
ON DELETE CASCADE ON UPDATE CASCADE
);
```

```
.driver
CREATE TABLE driver
(
drv_AT CHAR(10) NOT NULL,
drv_license ENUM('A','B','C','D'),
drv_route ENUM('LOCAL','ABROAD'),
drv_experience TINYINT(4),
PRIMARY KEY (drv_AT),
FOREIGN KEY (drv_AT) REFERENCES worker(wrk_AT)
ON DELETE CASCADE ON UPDATE CASCADE
);
```

.IT

CREATE TABLE IT

(

IT_AT CHAR(10) NOT NULL,

IT_password CHAR(10) DEFAULT 'password',

IT_start_date DATE NOT NULL,

IT_end_date DATE,

PRIMARY KEY (IT_AT),

FOREIGN KEY (IT_AT) REFERENCES worker(wrk_AT)

ON DELETE CASCADE ON UPDATE CASCADE

);

.guide

CREATE TABLE guide

(

gui_AT CHAR(10),

gui_cv TEXT,

PRIMARY KEY (gui_AT),

FOREIGN KEY (gui_AT) REFERENCES worker(wrk_AT)

ON DELETE CASCADE ON UPDATE CASCADE

);

.languages

CREATE TABLE languages

(

lng_gui_AT CHAR(10) NOT NULL,

lng_language VARCHAR(30) NOT NULL,

PRIMARY KEY (lng_gui_AT,lng_language),

FOREIGN KEY (lng_gui_AT) REFERENCES guide(gui_AT)

ON DELETE CASCADE ON UPDATE CASCADE

);

.trip

```
CREATE TABLE trip
(
    tr_id INT(11) NOT NULL AUTO_INCREMENT,
    tr_departure DATETIME,
    tr_return DATETIME,
    tr_maxseats TINYINT(4),
    tr_cost FLOAT(7,2),
    tr_br_code INT(11),
    tr_gui_AT CHAR(10),
    tr_drv_AT CHAR(10),

    PRIMARY KEY (tr_id),
    FOREIGN KEY(tr_br_code) REFERENCES branch(br_code)
        ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY(tr_gui_AT) REFERENCES guide(gui_AT)
        ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY(tr_drv_AT) REFERENCES driver(drv_AT)
        ON DELETE CASCADE ON UPDATE CASCADE
);
```

.event

```
CREATE TABLE event
(
    ev_tr_id INT(11),
    ev_start DATETIME,
    ev_end DATETIME,
    ev_descr TEXT,

    PRIMARY KEY (ev_tr_id,ev_start),
    FOREIGN KEY (ev_tr_id) REFERENCES trip(tr_id)
        ON DELETE CASCADE ON UPDATE CASCADE
);
```

```
.reservation  
CREATE TABLE reservation  
(  
res_tr_id INT(11) NOT NULL AUTO_INCREMENT,  
res_seatnum TINYINT(4),  
res_name VARCHAR(20),  
res_lastname VARCHAR(20),  
res_isadult ENUM('ADULT','MINOR'),  
  
PRIMARY KEY (res_tr_id,res_seatnum),  
FOREIGN KEY (res_tr_id) REFERENCES trip(trip_id)  
ON DELETE CASCADE ON UPDATE CASCADE  
);
```

```
.travel_to  
CREATE TABLE travel_to  
(  
to_tr_id INT(11),  
to_dst_id INT(11),  
to_arrival DATETIME,  
to_departure DATETIME,  
  
PRIMARY KEY (to_tr_id,to_dst_id),  
FOREIGN KEY (to_tr_id) REFERENCES trip(trip_id)  
ON DELETE CASCADE ON UPDATE CASCADE,  
FOREIGN KEY (to_dst_id) REFERENCES destination(dst_id)  
ON DELETE CASCADE ON UPDATE CASCADE  
);
```

.destination

```
CREATE TABLE destination
(
dst_id INT(11) NOT NULL AUTO_INCREMENT,
dst_name VARCHAR(50),
dst_descr TEXT,
dst_rtype ENUM ('LOCAL','ABROAD'),
dst_language VARCHAR(30),
dst_location INT(11),

PRIMARY KEY (dst_id),
FOREIGN KEY (dst_location) REFERENCES destination(dst_id)
ON DELETE CASCADE ON UPDATE CASCADE
);
```

.offers

```
CREATE TABLE offers
(
of_id INT(11) NOT NULL AUTO_INCREMENT,
of_startdate DATE,
of_enddate DATE,
of_cost FLOAT(7,2),
of_dst_id INT(11),
of_br_code INT(11),

PRIMARY KEY (of_id),
FOREIGN KEY (of_dst_id) REFERENCES destination(dst_id)
ON DELETE CASCADE ON UPDATE CASCADE,
FOREIGN KEY (of_br_code) REFERENCES branch(br_code)
ON DELETE CASCADE ON UPDATE CASCADE
);
```

```
.reservation_offers
CREATE TABLE reservation_offers
(
res_of_id INT(11) NOT NULL AUTO_INCREMENT,
res_lastname VARCHAR(20),
res_name VARCHAR(20),
offer_id INT(11),
deposit FLOAT(7,2),

PRIMARY KEY (res_of_id),
FOREIGN KEY (offer_id) REFERENCES offers(of_id)
ON DELETE CASCADE ON UPDATE CASCADE
);
```

```
.user
CREATE TABLE user
(
user_id INT(11) NOT NULL AUTO_INCREMENT,
user_lastname VARCHAR(20) NOT NULL,

PRIMARY KEY (user_id),
FOREIGN KEY (user_lastname) REFERENCES worker(wrk_lname)
ON DELETE CASCADE ON UPDATE CASCADE
);
```

```
.log
CREATE TABLE log
(
log_id INT(11) NOT NULL AUTO_INCREMENT,
log_action ENUM('INSERT','DELETE','MODIFY'),
action_date TIMESTAMP,
action_lastname VARCHAR(20) NOT NULL,
action_table ENUM('trip','event','reservation','travel_to','destination'),
```

```
PRIMARY KEY (log_id),
FOREIGN KEY (action_lastname) REFERENCES user(user_lastname)
ON DELETE CASCADE ON UPDATE CASCADE
);
```

```
INSERT INTO branch VALUES  
(0,'Korinthou','8','Patras'),  
(0,'Ermou','25','Athens'),  
(0,'Kanari','68','Trikala')  
(0,'Zerva','18','Volos');
```

```
INSERT INTO phones VALUES  
(1,2610322555),  
(1,6978562310),  
(1,6981452374),  
(1,6932178659),  
(1,6985103020),  
(2,2107779999),  
(2,6984561322),  
(2,6945037891),  
(2,6974012358),  
(2,6985203476),  
(3,2421023944),  
(3,6972123007),  
(3,6975869312),  
(3,6974866523),  
(3,6981023457),  
(4,2421350226),  
(4,6932145078),  
(4,6941235870),  
(4,6985203147),  
(4,6978521460);
```

```
INSERT INTO manages VALUES  
('AK 479821',1),  
('AK 847231',2),  
('AK 122132',3),  
('AK 151000',4);
```

```
INSERT INTO guide VALUES  
('AK 541369','ABCDEFG'),  
('AK 121314','ABCDEFG'),  
('AK 475100','ABCDEFG'),  
('AK 100030','ABCDEFG'),  
('AK 655647','ABCDEFG'),  
('AK 753537','ABCDEFG'),  
('AK 000223','ABCDEFG'),  
('AK 311253','ABCDEFG');
```

INSERT INTO worker VALUES

('AK 653215','Caitlyn','Tate',1000,1,'ADMIN'),
('AK 362587','Trey', 'Eaton',1000,1,'ADMIN'),
('AK 479821','Alvaro','Russell',1000,1,'ADMIN'),
('AK 541369','Mckenna','Waller',1200,1,'GUIDE'),
('AK 121314','Javier','Forbes',1200,1,'GUIDE'),
('AK 151617','Hadassah','Finley',1300,1,'DRIVER'),
('AK 212223','Reginald','Roberts',1300,1,'DRIVER'),
('AK 313233','Gunnar','Hebert',1300,1,'DRIVER'),
('AK 414243','Mckinley','Mendez',1000,2,'ADMIN'),
('AK 454647','Scarlett','Berger',1000,2,'ADMIN'),
('AK 847231','Moshe','Abbott',1000,2,'ADMIN'),
('AK 475100','Melanie','Merritt',1200,2,'GUIDE'),
('AK 100030','Jaime','Rosales',1200,2,'GUIDE'),
('AK 717273','Maximillian','Holden',1300,2,'DRIVER'),
('AK 546566','April','Cantrell',1300,2,'DRIVER'),
('AK 963630','Aurora','Hensley',1300,2,'DRIVER'),
('AK 471440','Sarai','Diaz',1000,3,'ADMIN'),
('AK 855852','Yadiel','Bowers',1000,3,'ADMIN'),
('AK 122132','Bella','Li',1000,3,'ADMIN'),
('AK 655647','Guadalupe','Gregory',1200,3,'GUIDE'),
('AK 753537','Mya','Krueger',1200,3,'GUIDE'),
('AK 001215','Itzel','Moyer',1300,3,'DRIVER'),
('AK 047587','Thalia', 'Hernandez',1300,3,'DRIVER'),
('AK 479890','Myla','Craig',1300,3,'DRIVER'),
('AK 545474','Jazmine','Alvarez',1000,4,'ADMIN'),
('AK 121479','Tristin','Banks',1000,4,'ADMIN'),
('AK 151000','Aliyah','Holmes',1000,4,'ADMIN'),
('AK 000223','Joselyn','Curtis',1200,4,'GUIDE'),
('AK 311253','Harper','Walters',1200,4,'GUIDE'),
('AK 603243','Augustus','Kent',1300,4,'DRIVER'),
('AK 890247','Gaige','Compton',1300,4,'DRIVER'),
('AK 454798','Gaige','Compton',1300,4,'DRIVER'),
('AK 575757','Neit','Camper',1300,4,'DRIVER'),
('AK 586957','Nathaniel','Trouper',1300,3,'DRIVER'),
('AK 696969','Tsak','Boris',1300,4,'DRIVER'),
('AK 151515','Harry','Styles',1300,2,'DRIVER'),
('AK 979797','John','Jovi',1300,2,'DRIVER'),
('AK 464646','Alex','Turner',1300,2,'DRIVER'),
('AK 837373','Axl','Rose',1300,2,'DRIVER'),
('AK 555555','Maria', 'Papadopoulou','1500','IT');

```
INSERT INTO admin VALUES
('AK 653215','LOGISTICS','ADMINISTRATIVE SCIENCE AND TECHNOLOGY'),
('AK 362587','ACCOUNTING','FINANCE'),
('AK 479821','ADMINISTRATIVE','BUSINESS MANAGEMENT'),  
  
('AK 414243','LOGISTICS','ADMINISTRATIVE SCIENCE AND TECHNOLOGY'),
('AK 454647','ACCOUNTING','FINANCE'),DE
('AK 847231','ADMINISTRATIVE','BUSINESS MANAGEMENT'),  
  
('AK 471440','LOGISTICS','ADMINISTRATIVE SCIENCE AND TECHNOLOGY'),
('AK 855852','ACCOUNTING','FINANCE'),
('AK 122132','ADMINISTRATIVE','BUSINESS MANAGEMENT'),  
  
('AK 545474','LOGISTICS','ADMINISTRATIVE SCIENCE AND TECHNOLOGY'),
('AK 121479','ACCOUNTING','FINANCE'),
('AK 151000','ADMINISTRATIVE','BUSINESS MANAGEMENT');  
  
INSERT INTO driver VALUES
('AK 151617','A','ABROAD',25),
('AK 212223','B','ABROAD',15),
('AK 313233','C','LOCAL',9),  
  
('AK 717273','B','ABROAD',15),
('AK 546566','D','LOCAL',30),
('AK 963630','A','ABROAD',5),  
  
('AK 001215','C','ABROAD',12),
('AK 047587','A','LOCAL',24),
('AK 479890','A','ABROAD',8),  
  
('AK 603243','B','ABROAD',14),
('AK 890247','B','LOCAL',4),
('AK 454798','A','ABROAD',36),  
  
('AK 575757','A','ABROAD',6),
('AK 586957','B','ABROAD',3),
('AK 696969','C','LOCAL',4),  
  
('AK 151515','A','LOCAL',20),
('AK 979797','B','LOCAL',24),
('AK 464646','C','ABROAD',1),
('AK 837373','B','ABROAD',13);
```

```
INSERT INTO IT (IT_AT,IT_start_date,IT_end_date) VALUES  
('AK 569994','2017-01-26','2020-02-06'),  
('AK 999995','2015-04-26','2016-08-06'),  
('AK 389632','2010-02-26','2012-08-01'),  
('AK 001478','2021-08-26','2022-07-26'),  
('AK 123095','2005-10-26','2007-04-06'),  
('AK 121027','2018-01-26','2021-05-10'),  
('AK 786495','2021-08-12','2022-12-04'),  
('AK 125895','2001-11-06','2003-03-16'),  
('AK 125795','2014-04-01','2018-12-26'),  
('AK 127890','2017-03-12','2019-09-28'),  
('AK 236595','2019-10-26','2021-12-06'),  
('AK 002395','2006-06-06','2007-07-07'),  
('AK 987654','2016-01-04','2019-06-17'),  
('AK 147895','2014-04-24','2020-02-16'),  
('AK 157898','2015-05-10','2016-10-28'),  
('AK 169894','2016-01-26','2019-09-01'),  
('AK 789525','2022-01-26','2023-05-15'),  
('AK 589304','2020-11-15','2022-08-24');
```

```
INSERT INTO IT (IT_AT,IT_password,IT_start_date) VALUES  
('AK 555555','kwdikos1','2022-01-06');
```

```
INSERT INTO languages VALUES
```

```
('AK 541369','English,Italian,German'),  
('AK 121314','Spanish,English,Ukrainian'),
```

```
('AK 475100','English,Italian'),  
('AK 100030','Chinese,Korean'),
```

```
('AK 655647','Russian,English'),  
('AK 753537','Portuguese'),
```

```
('AK 000223','French,English'),  
('AK 311253','German,Finnish,Dutch');
```

```
INSERT INTO trip VALUES  
(NULL,'2024-05-05 03:00:00','2024-05-10 03:00:00',52,521,1,'AK 541369','AK 151617'),  
(NULL,'2024-02-10 04:00:00','2024-02-12 04:00:00',60,158,1,'AK 121314','AK 212223'),  
(NULL,'2024-01-02 07:00:00','2024-01-10 12:00:00',120,500,1,'AK 121314','AK 151617'),  
(NULL,'2023-11-25 08:00:00','2023-11-30 04:00:00',30,1000,1,'AK 121314','AK 212223'),  
(NULL,'2023-12-25 11:00:00','2024-01-03 04:00:00',40,687,1,'AK 541369','AK 313233'),  
(NULL,'2024-01-04 22:00:00','2024-01-10 03:00:00',52,522,2,'AK 475100','AK 717273'),  
(NULL,'2023-10-21 09:00:00','2023-10-29 04:00:00',60,155,2,'AK 100030','AK 546566'),  
(NULL,'2023-11-01 08:00:00','2023-11-08 12:00:00',120,555,2,'AK 475100','AK 963630'),  
(NULL,'2023-12-05 07:00:00','2023-12-10 04:00:00',30,1111,2,'AK 100030','AK 717273'),  
(NULL,'2024-01-10 21:00:00','2024-01-15 04:00:00',40,688,2,'AK 475100','AK 546566'),  
(NULL,'2023-08-14 06:00:00','2023-08-20 03:00:00',50,489,3,'AK 655647','AK 001215'),  
(NULL,'2023-09-09 09:00:00','2023-09-16 04:00:00',62,235,3,'AK 753537','AK 047587'),  
(NULL,'2023-10-22 01:00:00','2023-10-28 12:00:00',100,896,3,'AK 655647','AK 479890'),  
(NULL,'2024-04-13 17:00:00','2024-04-18 04:00:00',34,1500,3,'AK 753537','AK 001215'),  
(NULL,'2024-02-05 08:00:00','2024-02-15 04:00:00',32,189,3,'AK 655647','AK 047587'),  
(NULL,'2024-01-01 13:00:00','2024-01-10 03:00:00',45,500,4,'AK 000223','AK 603243'),  
(NULL,'2024-03-15 18:00:00','2024-03-20 04:00:00',60,200,4,'AK 311253','AK 890247'),  
(NULL,'2023-09-03 14:00:00','2023-09-08 12:00:00',36,400,4,'AK 000223','AK 454798'),  
(NULL,'2023-10-17 08:00:00','2023-10-25 04:00:00',25,950,4,'AK 311253','AK 603243'),  
(NULL,'2023-08-05 09:00:00','2023-05-10 04:00:00',70,150,4,'AK 000223','AK 890247'),  
(NULL,'2024-06-10 02:00:00','2024-06-18 01:00:00',2,682,1,'AK 541369','AK 151617');
```

INSERT INTO event VALUES

(41,'2024-05-01 21:00:00','2024-05-01 01:00:00','dfgdgdfg'),
(41,'2024-04-25 18:00:00','2024-04-25 22:00:00','fghffhffh'),
(42,'2024-02-05 21:00:00','2024-02-05 01:00:00','fghffhfhh'),
(43,'2024-12-28 20:00:00','2024-12-28 00:00:00','dggddgdg'),
(44,'2023-11-20 19:00:00','2023-11-20 21:00:00','fhffffsra'),
(45,'2023-12-20 18:00:00','2023-12-20 20:00:00','dggddgdgd'),
(46,'2024-12-27 19:00:00','2024-12-27 22:00:00','dggdgddqaq'),
(47,'2023-10-15 19:00:00','2023-10-15 22:00:00','dgewwarea'),
(48,'2023-10-26 20:00:00','2023-10-26 00:00:00','xvzxzafs'),
(49,'2023-11-29 20:00:00','2023-11-29 23:00:00','bcbczsdfa'),
(49,'2023-11-20 20:00:00','2023-11-20 00:00:00','ryrtetwtwt'),
(50,'2024-01-06 21:00:00','2024-01-06 01:00:00','wrwrwrsrwr'),
(51,'2023-08-10 20:00:00','2023-08-10 23:00:00','eyettestst'),
(52,'2023-09-01 17:00:00','2023-09-01 20:00:00','opippjibnp'),
(53,'2023-10-17 19:00:00','2023-10-17 22:00:00','opipiipipp'),
(54,'2024-04-10 20:00:00','2024-04-10 01:00:00','wrarawrarrow'),
(55,'2024-02-02 21:00:00','2024-02-02 23:00:00','uooovcxgdzx'),
(56,'2024-12-20 17:00:00','2024-12-20 20:00:00','ryryseetst'),
(57,'2024-03-10 18:00:00','2024-03-10 21:00:00','cvxvxvxcvx'),
(58,'2023-08-28 19:00:00','2023-08-28 22:00:00','tetsettstee'),
(59,'2023-10-12 22:00:00','2023-10-12 02:00:00','bbxbcxxxb'),
(60,'2023-08-02 21:00:00','2023-08-02 00:00:00','tertststset');

INSERT INTO reservation VALUES

(41,18,'Turner','Schmidt','ADULT'),
(41,12,'Lennon','Hester','ADULT'),
(41,2,'Brooklyn','Banks','ADULT'),
(41,3,'Maleah','Conrad','MINOR'),
(42,1,'Natalia','Schmidt','ADULT'),
(42,5,'Ross','Ayers','MINOR'),
(42,15,'Antoine','Nicholson','ADULT'),
(42,18,'Rylie','Luna','MINOR'),

(43,18,'Ramon','Huff','ADULT'),
(43,12,'Celia','Nunez','ADULT'),
(44,2,'Tabitha','Ho','ADULT'),
(44,3,'Dexter','Vargas','MINOR'),
(45,1,'Jimmy','Deleon','ADULT'),
(45,5,'Micah','Mcintosh','MINOR'),
(46,15,'Lisa','Rodriguez','ADULT'),
(46,18,'Lizbeth','Morton','MINOR'),

(47,18,'Johnny','Santiago','ADULT'),
(47,12,'Jaron','Rowe','ADULT'),
(48,2,'William','Ho','ADULT'),
(48,3,'William','Vargas','MINOR'),
(49,1,'Reid','Lang','ADULT'),
(49,5,'Easton','Torres','MINOR'),
(50,15,'Krista','Romero','ADULT'),
(50,18,'Arthur','Mcknight','MINOR'),

(51,18,'Aldo','Clarke','ADULT'),
(51,12,'Jan','Dillon','ADULT'),
(51,2,'Brayan','Krueger','ADULT'),
(51,3,'Zavier','Anthony','MINOR'),
(52,1,'Alfredo','Greene','ADULT'),
(52,5,'Kamila','Prince','MINOR'),
(52,15,'Reese','Brennan','ADULT'),
(52,18,'Jaylynn','Erickson','MINOR'),

(53,18,'Madalynn','Black','ADULT'),
(53,12,'Celia','Lunf','ADULT'),
(54,2,'Tabera','Jo','ADULT'),
(54,3,'Dipo','Hunf','MINOR'),
(55,1,'John','Dalida','ADULT'),
(55,5,'Miler','Marey','MINOR'),
(56,15,'Lopo','Ropolo','ADULT'),
(56,18,'Miley','Matrop','MINOR'),

(57,18,'Jack','Bass','ADULT'),
(57,12,'Jacob','Rolo','ADULT'),
(58,2,'Wilhem','Woodsen','ADULT'),
(58,3,'Nick','Johnas','MINOR'),
(59,1,'Rei','Loustro','ADULT'),
(59,5,'Blue','Turner','MINOR'),
(60,15,'Kim','Jay','ADULT'),
(60,18,'Arthuro','Mckmerfy','MINOR');

(61,1,'Kostas','Karatheodoris','ADULT'),
(61,2,'Katerina','Sioula','ADULT');

```

INSERT INTO destination VALUES
(NULL,'Ibiza','sdfsdsd','ABROAD','Spanish'),
(NULL,'Arta','hfhfhf','LOCAL','Greek'),
(NULL,'Madrid','tuyuyu','ABROAD','Spanish'),
(NULL,'Kastoria','gjjgjj','LOCAL','Greek'),
(NULL,'Mosxa','gjjgjyyiyij','ABROAD','Russian'),
(NULL,'Pekino','gjjgjj','ABROAD','Chinese'),
(NULL,'Milan','esretetet','ABROAD','Italian'),
(NULL,'Paris','gjjgjsrrsrsj','ABROAD','French'),
(NULL,'Rome','etftyyy4eyy','ABROAD','Italian'),
(NULL,'Florence','pououoyy','ABROAD','Italian'),
(NULL,'New York','ftyfufuu','ABROAD','London'),
(NULL,'Amsterdam','o8o8ououou','ABROAD','Dutch'),
(NULL,'Santorini','uyidrdghfjsy','LOCAL','Greek'),
(NULL,'Astypalaia','sfgbgjfjtur','LOCAL','Greek'),
(NULL,'Thessaloniki','utyutututu','LOCAL','Greek'),
(NULL,'Xalkidiki','yyyetteteiyi','LOCAL','Greek'),
(NULL,'Leonidio','yyi7iogcszwai','LOCAL','Greek'),
(NULL,'Kalavryta','y6iiseawghnjf','LOCAL','Greek'),
(NULL,'Elatia','er4tsfdgjh','LOCAL','Greek'),
(NULL,'Trikala','opygfsgsegg','LOCAL','Greek');

```

```
INSERT INTO travel_to VALUES
```

```

(41,18,'2024-05-05 09:00:00','2024-05-09 22:00:00'),
(42,26,'2024-02-10 10:00:00','2024-02-11 23:00:00'),
(43,12,'2024-01-02 15:00:00','2024-01-09 07:00:00'),
(44,20,'2023-11-25 14:00:00','2023-11-29 22:00:00'),
(45,13,'2023-12-25 17:00:00','2024-01-02 17:00:00'),
(46,14,'2024-01-05 06:00:00','2024-01-09 20:00:00'),
(47,11,'2023-10-21 12:00:00','2023-10-28 22:00:00'),
(48,21,'2023-11-01 11:00:00','2023-11-08 10:00:00'),
(49,22,'2023-12-05 15:00:00','2023-12-09 18:00:00'),
(50,24,'2024-01-11 02:00:00','2024-01-14 22:00:00'),
(51,29,'2023-08-14 09:00:00','2023-08-19 22:00:00'),
(52,28,'2023-09-09 14:00:00','2023-09-15 00:00:00'),
(53,27,'2023-10-22 04:00:00','2023-10-28 09:00:00'),
(54, 9,'2024-04-13 22:00:00','2024-04-17 23:00:00'),
(55,25,'2024-02-05 11:00:00','2024-02-14 23:00:00'),
(56,10,'2024-01-01 14:00:00','2024-01-09 23:00:00'),
(57,13,'2024-03-16 03:00:00','2024-03-19 19:00:00'),
(58,15,'2023-09-03 17:00:00','2023-09-08 09:00:00'),
(59,16,'2023-10-17 12:00:00','2023-10-24 21:00:00'),
(60,17,'2023-08-05 13:00:00','2023-08-09 22:00:00'),
(61,18,'2024-06-11 06:00:00','2024-06-17 20:00:00');

```

2.2 Stored Procedures

3.1.3.1

```
DELIMITER $  
CREATE PROCEDURE insert_driver  
( IN m_drv_AT CHAR(10),  
  IN m_wrk_name VARCHAR(20),  
  IN m_wrk_lname VARCHAR(20),  
  IN m_wrk_salary FLOAT(7,2),  
  IN m_drv_route ENUM('LOCAL','ABROAD'),  
  IN m_drv_experience TINYINT(4)  
)  
  
BEGIN  
  DECLARE min_branch_code INT(11);  
  
  SELECT br_code  
  INTO min_branch_code  
  FROM  
  (  
    SELECT b.br_code, count(d.drv_AT) AS 'Number of drivers'  
    FROM branch AS b  
    INNER JOIN worker AS w ON b.br_code=w.wrk_br_code  
    INNER JOIN driver AS d ON w.wrk_AT=d.drv_AT  
    GROUP BY b.br_code  
    LIMIT 1  
  ) AS subquery;  
  
  INSERT INTO worker(wrk_AT,wrk_name,wrk_lname,wrk_salary,wrk_br_code,wrk_status)  
  VALUES (m_drv_AT,m_wrk_name,m_wrk_lname,m_wrk_salary,min_branch_code,'DRIVER');  
  
  INSERT INTO driver(drv_AT,drv_route,drv_experience)  
  VALUES (m_drv_AT,m_drv_route,m_drv_experience);  
  
END $  
DELIMITER;
```

```
mysql> call insert_driver ('AK 499999','Harry','Potter','B','1600','ABROAD','8');
Query OK, 1 row affected (0.00 sec)
```

wrk_AT	wrk_name	wrk_lname	wrk_salary	wrk_br_code	wrk_status
AK 653215	Caitlyn	Tate	1000.00	1	ADMIN
AK 362587	Trey	Eaton	1000.00	1	ADMIN
AK 479821	Alvaro	Russell	1000.00	1	ADMIN
AK 541369	Mckenna	Waller	1200.00	1	GUIDE
AK 121314	Javier	Forbes	1200.00	1	GUIDE
AK 151617	Hadassah	Finley	1300.00	1	DRIVER
AK 212223	Reginald	Roberts	1300.00	1	DRIVER
AK 313233	Gunnar	Hebert	1300.00	1	DRIVER
AK 414243	Mckinley	Mendez	1000.00	2	ADMIN
AK 454647	Scarlett	Berger	1000.00	2	ADMIN
AK 847231	Moshe	Abbott	1000.00	2	ADMIN
AK 475100	Melanie	Merritt	1200.00	2	GUIDE
AK 100030	Jaime	Rosales	1200.00	2	GUIDE
AK 717273	Maximillian	Holden	1300.00	2	DRIVER
AK 546566	April	Cantrell	1300.00	2	DRIVER
AK 963630	Aurora	Hensley	1300.00	2	DRIVER
AK 471440	Sarai	Diaz	1000.00	3	ADMIN
AK 855852	Yadiel	Bowers	1000.00	3	ADMIN
AK 122132	Bella	Li	1000.00	3	ADMIN
AK 655647	Guadalupe	Gregory	1200.00	3	GUIDE
AK 753537	Mya	Krueger	1200.00	3	GUIDE
AK 001215	Itzel	Moyer	1300.00	3	DRIVER
AK 047587	Thalia	Hernandez	1300.00	3	DRIVER
AK 479890	Myla	Craig	1300.00	3	DRIVER
AK 545474	Jazmine	Alvarez	1000.00	4	ADMIN
AK 121479	Tristin	Banks	1000.00	4	ADMIN
AK 151000	Aliyah	Holmes	1000.00	4	ADMIN
AK 000223	Joselyn	Curtis	1200.00	4	GUIDE
AK 311253	Harper	Walters	1200.00	4	GUIDE
AK 603243	Augustus	Kent	1300.00	4	DRIVER
AK 890247	Gaige	Compton	1300.00	4	DRIVER
AK 454798	Garry	Woodsen	1300.00	4	DRIVER
AK 575757	Neit	Camper	1300.00	4	DRIVER
AK 696969	Tsak	Boris	1300.00	4	DRIVER
AK 586957	Nathaniel	Trouper	1300.00	3	DRIVER
AK 151515	Harry	Styles	1300.00	2	DRIVER
AK 979797	John	Jovi	1300.00	2	DRIVER
AK 464646	Alex	Turner	1300.00	2	DRIVER
AK 837373	Axl	Rose	1300.00	2	DRIVER
AK 899999	Taylor	Momsen	1300.00	1	DRIVER
AK 555555	Maria	Papadopoulou	1500.00	NULL	IT
AK 8999980	Tavis	Barker	1300.00	1	DRIVER
AK 899889	Taylor	Momsen	1300.00	1	DRIVER
AK 111118	Phoebe	Bouffe	1350.00	1	DRIVER
AK 499999	Harry	Potter	1600.00	3	DRIVER

```
mysql> select * from driver;
```

drv_AT	drv_license	drv_route	drv_experience
AK 151617	A	ABROAD	25
AK 212223	B	ABROAD	15
AK 313233	C	LOCAL	9
AK 717273	B	ABROAD	15
AK 546566	D	LOCAL	30
AK 963630	A	ABROAD	5
AK 001215	C	ABROAD	12
AK 047587	A	LOCAL	24
AK 479890	A	ABROAD	8
AK 603243	B	ABROAD	14
AK 890247	B	LOCAL	4
AK 454798	A	ABROAD	36
AK 575757	A	ABROAD	6
AK 586957	B	ABROAD	3
AK 696969	C	LOCAL	4
AK 151515	A	LOCAL	20
AK 979797	B	LOCAL	24
AK 464646	C	ABROAD	1
AK 837373	B	ABROAD	13
AK 899999	B	ABROAD	5
AK 8999980	C	ABROAD	5
AK 899889	A	ABROAD	5
AK 111118	A	LOCAL	10
AK 499999	B	ABROAD	8

3.1.3.2

DELIMITER \$

```
CREATE PROCEDURE show_trip_details
( IN s_branch_code INT(11),
  IN upperlimit_date DATE,
  IN lowerlimit_date DATE
)
BEGIN
SELECT t.tr_cost,
       t.tr_maxseats,
       count(r.res_tr_id) AS 'Total_resesrvations',
       t.tr_maxseats-count(r.res_tr_id) AS 'Empty_seats',
       wd.wrk_name AS 'Driver_name',
       wd.wrk_lname AS 'Driver_lastaname',
       wg.wrk_name AS 'Guide_name',
       wg.wrk_lname AS 'Guide_lastaname',
       t.tr_departure AS 'Departure_date',
       t.tr_return AS 'Return_date'
FROM trip AS t
LEFT JOIN reservation AS r ON r.res_tr_id=t.tr_id
LEFT JOIN driver AS d ON t.tr_drv_AT=d.drv_AT
LEFT JOIN worker AS wd ON d.drv_AT=wd.wrk_AT
LEFT JOIN guide AS g ON t.tr_gui_AT=g.gui_AT
LEFT JOIN worker AS wg ON g.gui_AT=wg.wrk_AT
```

WHERE

```
  t.tr_br_code=s_branch_code
  AND t.tr_departure BETWEEN lowerlimit_date AND upperlimit_date
  GROUP BY t.tr_id;
```

END \$

DELIMITER ;

```

mysql> call show_trip_details('1','2024-05-01','2023-06-01');
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| tr_cost | tr_maxseats | Total_resesrvations | Empty_seats | Driver_name | Driver_lastname | Guide_name | Guide_lastname | Departure_date | Return_date |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 158.00 |       60 |             4 |         56 | Reginald | Roberts        | Javier     | Forbes      | 2024-02-10 04:00:00 | 2024-02-12 04:00:00 |
| 500.00 |      120 |             2 |        118 | Hadassah | Finley        | Javier     | Forbes      | 2024-01-02 07:00:00 | 2024-01-10 12:00:00 |
| 1000.00 |        30 |             2 |         28 | Reginald | Roberts        | Javier     | Forbes      | 2023-11-25 08:00:00 | 2023-11-30 04:00:00 |
| 687.00 |       40 |             2 |         38 | Gunnar   | Hebert        | McKenna    | Waller      | 2023-12-25 11:00:00 | 2024-01-03 04:00:00 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

Query OK, 0 rows affected (0.02 sec)

```

3.1.3.3

DELIMITER \$

CREATE PROCEDURE delete_admin

```

(
    IN admin_name VARCHAR(20),
    IN admin_lname VARCHAR(20),
    OUT message VARCHAR(255)
)
```

BEGIN

DECLARE worker_id CHAR(10);

DECLARE admin_type ENUM('LOGISTICS','ADMINISTRATIVE','ACCOUNTING');

DECLARE manager_id CHAR(10);

SELECT wrk_AT,adm_type

INTO worker_id,admin_type

FROM worker

INNER JOIN admin ON adm_AT=wrk_AT

WHERE wrk_name=admin_name AND wrk_lname=admin_lname;

```

IF (admin_type != 'ADMINISTRATIVE') THEN

    DELETE FROM worker WHERE wrk_name=admin_name AND wrk_lname=admin_lname;
    DELETE FROM admin WHERE adm_AT=worker_id;
    SET message = 'Deletion successful from both worker and admin tables';

ELSE

    SELECT mng_adm_AT INTO manager_id
    FROM manages
    WHERE mng_adm_AT=worker_id;

    IF (manager_id IS NULL) THEN

        DELETE FROM worker WHERE wrk_AT=mng_adm_AT;
        DELETE FROM admin WHERE adm_AT=mng_adm_AT;

    ELSE SET message= 'Deletion is not allowed.This person is managing a branch';

    END IF;

END IF;

END $
```

DELIMITER ;

```
mysql> call delete_admin('Luis','Malfoi',@message);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT @message;
+-----+
| @message |
+-----+
| Deletion is not allowed.This person is managing a branch |
+-----+
1 row in set (0.00 sec)
```

```
mysql> call delete_admin('Caitlyn','Tate',@message);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT @message;
+-----+
| @message |
+-----+
| Deletion successful from both worker and admin tables |
+-----+
1 row in set (0.00 sec)
```

wrk_AT	wrk_name	wrk_lname	wrk_salary	wrk_br_code	wrk_status
AK 362587	Trey	Eaton	1000.00	1	ADMIN
AK 479821	Alvaro	Russell	1000.00	1	ADMIN
AK 541369	Mckenna	Waller	1200.00	1	GUIDE
AK 121314	Javier	Forbes	1200.00	1	GUIDE
AK 151617	Hadassah	Finley	1300.00	1	DRIVER
AK 212223	Reginald	Roberts	1300.00	1	DRIVER
AK 313233	Gunnar	Hebert	1300.00	1	DRIVER
AK 414243	Mckinley	Mendez	1000.00	2	ADMIN
AK 454647	Scarlett	Berger	1000.00	2	ADMIN
AK 847231	Moshe	Abbott	1000.00	2	ADMIN
AK 475100	Melanie	Merritt	1200.00	2	GUIDE
AK 100030	Jaime	Rosales	1200.00	2	GUIDE
AK 717273	Maximillian	Holden	1300.00	2	DRIVER
AK 546566	April	Cantrell	1300.00	2	DRIVER
AK 963630	Aurora	Hensley	1300.00	2	DRIVER
AK 471440	Sarai	Diaz	1000.00	3	ADMIN
AK 855852	Yadiel	Bowers	1000.00	3	ADMIN
AK 122132	Bella	Li	1000.00	3	ADMIN
AK 655647	Guadalupe	Gregory	1200.00	3	GUIDE
AK 753537	Mya	Krueger	1200.00	3	GUIDE
AK 001215	Itzel	Moyer	1300.00	3	DRIVER
AK 047587	Thalia	Hernandez	1300.00	3	DRIVER
AK 479890	Myla	Craig	1300.00	3	DRIVER
AK 545474	Jazmine	Alvarez	1000.00	4	ADMIN
AK 121479	Tristin	Banks	1000.00	4	ADMIN
AK 151000	Aliyah	Holmes	1000.00	4	ADMIN
AK 000223	Joselyn	Curtis	1200.00	4	GUIDE
AK 311253	Harper	Walters	1200.00	4	GUIDE
AK 603243	Augustus	Kent	1300.00	4	DRIVER
AK 890247	Gaige	Compton	1300.00	4	DRIVER
AK 454798	Garry	Woodsen	1300.00	4	DRIVER
AK 575757	Neit	Camper	1300.00	4	DRIVER
AK 696969	Tsak	Boris	1300.00	4	DRIVER
AK 586957	Nathaniel	Trouper	1300.00	3	DRIVER
AK 151515	Harry	Styles	1300.00	2	DRIVER
AK 979797	John	Jovi	1300.00	2	DRIVER
AK 464646	Alex	Turner	1300.00	2	DRIVER
AK 837373	Axl	Rose	1300.00	2	DRIVER
AK 899999	Taylor	Momsen	1300.00	1	DRIVER
AK 555555	Maria	Papadopoulou	1500.00	NULL	IT
AK 8999980	Tavis	Barker	1300.00	1	DRIVER
AK 899889	Taylor	Momsen	1300.00	1	DRIVER
AK 111118	Phoebe	Bouffe	1350.00	1	DRIVER
AK 499999	Harry	Potter	1600.00	3	DRIVER

adm_AT	adm_type	adm_diploma
AK 362587	ACCOUNTING	FINANCE
AK 479821	ADMINISTRATIVE	BUSINESS MANAGEMENT
AK 414243	LOGISTICS	ADMINISTRATIVE SCIENCE AND TECHNOLOGY
AK 454647	ACCOUNTING	FINANCE
AK 847231	ADMINISTRATIVE	BUSINESS MANAGEMENT
AK 471440	LOGISTICS	ADMINISTRATIVE SCIENCE AND TECHNOLOGY
AK 855852	ACCOUNTING	FINANCE
AK 122132	ADMINISTRATIVE	BUSINESS MANAGEMENT
AK 545474	LOGISTICS	ADMINISTRATIVE SCIENCE AND TECHNOLOGY
AK 121479	ACCOUNTING	FINANCE
AK 151000	ADMINISTRATIVE	BUSINESS MANAGEMENT

3.1.3.4

A]

Η καταχώρηση των indexes έγινε στον πίνακα reservation_offers καθώς από αυτό τον πίνακα θα γίνει εξαγωγή των ζητούμενων αποτελεσμάτων. Ο index που χρησιμοποιήθηκε είναι ο ίδιος και στις δύο περιπτώσεις και είναι ο απλός, καθώς απορρίφθηκαν οι spatial/fulltext ενώ ούτε ο unique θα μπορούσε να χρησιμοποιηθεί αφού δεν δέχεται τις duplicate τιμές. Η επιλογή των στοιχείων του κάθε index έγινε με βάση τις παραμέτρους των αντίστοιχων stored

```
DELIMITER $  
CREATE PROCEDURE find_reservations  
( IN min_deposit FLOAT(7,2),  
  IN max_deposit  FLOAT(7,2)  
)  
  
BEGIN  
  
SELECT res_name,res_lastname  
FROM reservation_offers  
WHERE deposit BETWEEN min_deposit AND max_deposit;  
  
END $  
DELIMITER ;
```

Υπάρχει βελτίωση στον χρόνο εμφάνισης των αποτελεσμάτων, όπως φαίνεται παρακάτω. Επίσης έχει γίνει χρήση της εντολής EXPLAIN του select που χρησιμοποιήθηκε για να επιβεβαιωθεί ότι γίνεται χρήση του index που καταχωρήθηκε στον πίνακα

```
CREATE INDEX idx_deposit
```

```
ON reservation_offers(deposit,offer_id,res_name,res_lastname);
```

```
mysql> call find_reservations(50,150);
```

- Χωρίς ευρετήριο

```
+-----+-----+
| Anthony | Davis
| Allison | Hall
| James   | Wheeler
| Mark    | Elliott
| George  | Davis
| Andrew  | Fisher
| Matthew | Ray
| Stephanie | Odonnell
| Tamara  | Stone
| Brooke  | Smith
| Teresa  | Matthews
| Brandy  | Holden
| Jennifer | Daniels
| Willie  | Reed
| Cynthia | Carroll
| Luke    | Blake
| Shelby  | Savage
| Lauren  | Ramirez
| Kimberly | Thompson
| Lawrence | Jones
| Ana     | Sanchez
| Kevin   | Fleming
| Angela  | Richmond
| Ana     | Chase
| Clifford | Goodman
| Cody    | Morris
| Kayla   | Kelly
| Linda   | Cordova
| Brian   | Livingston
| David   | Sims
| Johnny  | McGrath
| James   | Martinez
| Robert  | White
| Isabella | Walker
| Christopher | Williams
| Allen   | Andrews
| Paul    | Davis
| Robert  | Smith
| Elizabeth | Turner
| Elizabeth | Faulkner
| Samantha | Kline
| Lauren  | Rodriguez
| David   | Padilla
| Andrew  | Sellers
| Vanessa | Thompson
| Brittney | Conway
| Kathleen | Rich
| Robin   | Yu
| Brandon | Chandler
| Christine | Sanchez
| Aaron   | Johnson
| Edward  | Gallagher
| Charles  | Warren
| Edward  | Dixon
| Christopher | Davis
| Joshua  | Collins
+-----+-----+
40096 rows in set (0.03 sec)
```

```
Query OK, 0 rows affected (27.48 sec)
```

```
mysql>
```

- Με ευρετήριο

```
+-----+-----+
| Lauren | Williams
| Laurie | Powell
| Leslie | Munoz
| Lisa   | Jones
| Lisa   | Livingston
| Lisa   | Madden
| Marie  | Green
| Mark   | Cowan
| Mark   | Singleton
| Matthew | Rivera
| Michael | Buck
| Michael | Burke
| Michael | Lopez
| Michael | Simpson
| Michelle | Mendoza
| Nicholas | Mcmahon
| Nicole  | Brooks
| Nicole  | Lawson
| Nicole  | Smith
| Randy   | Davis
| Raymond | Whitaker
| Rebecca | Hill
| Rebecca | Johnson
| Ricky   | Cole
| Ricky   | Wong
| Robert  | Dorsey
| Robert  | Graham
| Robert  | Lee
| Rodney  | King
| Samantha | Wright
| Sarah   | Lopez
| Shannon | Carlson
| Shannon | Sims
| Shari   | Nunez
| Shawn   | Baxter
| Shelby  | Savage
| Shelly  | Martin
| Stephanie | Eaton
| Stephen | Morgan
| Teresa  | Brown
| Teresa  | Espinoza
| Tiffany | Wilson
| Tony    | Johnston
| Tyler   | Lee
| William | Alvarado
| William | Mendez
| Yvette  | Bates
+-----+-----+
40096 rows in set (0.02 sec)
```

```
Query OK, 0 rows affected (22.27 sec)
```

```
mysql> EXPLAIN SELECT res_name, res_lastname, COUNT(res_name),offer_id
-> FROM reservation_offers
-> WHERE deposit BETWEEN 50 AND 150;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | select_type | table      | partitions | type    | possible_keys | key      | key_len | ref    | rows   | filtered | Extra
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | SIMPLE      | reservation_offers | NULL      | range    | idx_deposit  | idx_deposit | 5       | NULL   | 27288  | 100.00   | Using where; Using index |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
1 row in set, 1 warning (0.00 sec)
```

B]

```
DELIMITER $  
CREATE PROCEDURE find_name_reservations  
( IN find_lastname VARCHAR(20)  
)  
  
BEGIN  
  
SELECT res_name, res_lastname, COUNT(res_name),offer_id  
FROM reservation_offers  
WHERE res_lastname=find_lastname  
GROUP BY res_name, res_lastname,offer_id;  
  
END $  
DELIMITER ;
```

Υπάρχει βελτίωση στον χρόνο εμφάνισης των αποτελεσμάτων, όπως φαίνεται παρακάτω. Επίσης έχει γίνει χρήση της εντολής EXPLAIN του select που χρησιμοποιήθηκε για να επιβεβαιωθεί ότι γίνεται χρήση του index που καταχωρήθηκε στον πίνακα

```
CREATE INDEX idx_lastname  
ON reservation_offers (res_lastname,res_name,offer_id);
```

```
mysql> call find_name_reservations('Johnson');
```

- Χωρίς ευρετήριο

```
+-----+-----+-----+-----+
| Taylor | Johnson | 1 | 3 |
| Teresa | Johnson | 1 | 1 |
| Teresa | Johnson | 4 | 2 |
| Teresa | Johnson | 1 | 3 |
| Thomas | Johnson | 3 | 1 |
| Thomas | Johnson | 2 | 2 |
| Tiffany | Johnson | 1 | 1 |
| Tiffany | Johnson | 1 | 2 |
| Tiffany | Johnson | 2 | 3 |
| Tim | Johnson | 1 | 3 |
| Timothy | Johnson | 1 | 1 |
| Timothy | Johnson | 2 | 2 |
| Timothy | Johnson | 1 | 3 |
| Tina | Johnson | 1 | 1 |
| Tina | Johnson | 1 | 2 |
| Tina | Johnson | 3 | 3 |
| Todd | Johnson | 1 | 2 |
| Todd | Johnson | 2 | 3 |
| Tommy | Johnson | 1 | 1 |
| Toni | Johnson | 1 | 1 |
| Toni | Johnson | 1 | 3 |
| Tony | Johnson | 2 | 1 |
| Tonya | Johnson | 3 | 1 |
| Tracey | Johnson | 1 | 2 |
| Tracey | Johnson | 1 | 3 |
| Tracy | Johnson | 1 | 1 |
| Tracy | Johnson | 2 | 2 |
| Tracy | Johnson | 2 | 3 |
| Travis | Johnson | 1 | 1 |
| Travis | Johnson | 2 | 2 |
| Travis | Johnson | 2 | 3 |
| Trevor | Johnson | 1 | 1 |
| Troy | Johnson | 1 | 3 |
| Tyler | Johnson | 1 | 1 |
| Tyler | Johnson | 3 | 2 |
| Tyrone | Johnson | 1 | 1 |
| Tyrone | Johnson | 1 | 2 |
| Valerie | Johnson | 1 | 1 |
| Valerie | Johnson | 1 | 2 |
| Valerie | Johnson | 1 | 3 |
| Vanessa | Johnson | 2 | 1 |
| Vernon | Johnson | 1 | 2 |
| Veronica | Johnson | 1 | 2 |
| Vicki | Johnson | 1 | 2 |
| Victoria | Johnson | 2 | 2 |
| Victoria | Johnson | 1 | 3 |
| Walter | Johnson | 1 | 1 |
| Wanda | Johnson | 1 | 2 |
| Wayne | Johnson | 2 | 1 |
| Wendy | Johnson | 2 | 1 |
| Wendy | Johnson | 1 | 2 |
| Wendy | Johnson | 3 | 3 |
| Wesley | Johnson | 2 | 3 |
| William | Johnson | 3 | 1 |
| William | Johnson | 4 | 2 |
| William | Johnson | 7 | 3 |
| Willie | Johnson | 1 | 3 |
| Yolanda | Johnson | 1 | 1 |
| Zachary | Johnson | 1 | 1 |
+-----+-----+-----+-----+
611 rows in set (0.01 sec)
```

Query OK, 0 rows affected (0.67 sec)

```
+-----+-----+-----+-----+
| Teresa | Johnson | 4 | 2 |
| Teresa | Johnson | 1 | 3 |
| Thomas | Johnson | 3 | 1 |
| Thomas | Johnson | 2 | 2 |
| Tiffany | Johnson | 1 | 1 |
| Tiffany | Johnson | 1 | 2 |
| Tiffany | Johnson | 2 | 3 |
| Tim | Johnson | 1 | 3 |
| Timothy | Johnson | 1 | 1 |
| Timothy | Johnson | 2 | 2 |
| Timothy | Johnson | 1 | 3 |
| Tina | Johnson | 1 | 1 |
| Tina | Johnson | 1 | 2 |
| Tina | Johnson | 3 | 3 |
| Todd | Johnson | 1 | 2 |
| Todd | Johnson | 2 | 3 |
| Tommy | Johnson | 1 | 1 |
| Toni | Johnson | 1 | 1 |
| Toni | Johnson | 1 | 3 |
| Tony | Johnson | 2 | 1 |
| Tonya | Johnson | 3 | 1 |
| Tracey | Johnson | 1 | 2 |
| Tracey | Johnson | 1 | 3 |
| Tracy | Johnson | 2 | 1 |
| Tracy | Johnson | 2 | 2 |
| Tracy | Johnson | 2 | 3 |
| Travis | Johnson | 1 | 1 |
| Travis | Johnson | 2 | 2 |
| Travis | Johnson | 2 | 3 |
| Trevor | Johnson | 1 | 1 |
| Troy | Johnson | 1 | 3 |
| Tyler | Johnson | 1 | 1 |
| Tyler | Johnson | 3 | 2 |
| Tyrone | Johnson | 1 | 1 |
| Tyrone | Johnson | 1 | 2 |
| Valerie | Johnson | 1 | 1 |
| Valerie | Johnson | 1 | 2 |
| Valerie | Johnson | 1 | 3 |
| Vanessa | Johnson | 2 | 1 |
| Vernon | Johnson | 1 | 2 |
| Veronica | Johnson | 1 | 2 |
| Vicki | Johnson | 1 | 2 |
| Victoria | Johnson | 2 | 2 |
| Victoria | Johnson | 1 | 3 |
| Walter | Johnson | 1 | 1 |
| Wanda | Johnson | 1 | 2 |
| Wayne | Johnson | 2 | 1 |
| Wendy | Johnson | 2 | 1 |
| Wendy | Johnson | 3 | 3 |
| Wesley | Johnson | 2 | 3 |
| William | Johnson | 3 | 1 |
| William | Johnson | 4 | 2 |
| William | Johnson | 7 | 3 |
| Willie | Johnson | 1 | 3 |
| Yolanda | Johnson | 1 | 1 |
| Zachary | Johnson | 1 | 1 |
+-----+-----+-----+-----+
611 rows in set (0.00 sec)
```

Query OK, 0 rows affected (0.62 sec)

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | select_type | table | partitions | type | possible_keys | key | key_len | ref | rows | filtered | Extra |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | SIMPLE | reservation_offers | NULL | ref | idx_lastname | idx_lastname | 23 | const | 634 | 100.00 | Using where; Using index |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set, 1 warning (0.00 sec)
```

2.3 Triggers

3.1.4.1

.delete

.....trip.....

DELIMITER \$

CREATE TRIGGER log_del_trip

AFTER DELETE ON trip

FOR EACH ROW

BEGIN

DECLARE l_id INT(11);

DECLARE l_lname VARCHAR(20);

SELECT MAX(user_id) INTO l_id FROM user;

SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;

INSERT INTO log VALUES (0,'DELETE',NOW(),l_lname,'trip');

END \$

DELIMITER ;

.....reservation.....

DELIMITER \$

CREATE TRIGGER log_del_reservation

AFTER DELETE ON reservation

FOR EACH ROW

BEGIN

DECLARE l_id INT(11);

DECLARE l_lname VARCHAR(20);

SELECT MAX(user_id) INTO l_id FROM user;

SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;

INSERT INTO log VALUES (0,'DELETE',NOW(),l_lname,'reservation');

END \$

DELIMITER ;

.....event.....

DELIMITER \$

CREATE TRIGGER log_del_event

AFTER DELETE ON event

FOR EACH ROW

BEGIN

DECLARE l_id INT(11);

DECLARE l_lname VARCHAR(20);

SELECT MAX(user_id) INTO l_id FROM user;

SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;

INSERT INTO log VALUES (0,'DELETE',NOW(),l_lname,'event');

END \$

DELIMITER ;

.....travel_to.....

DELIMITER \$

CREATE TRIGGER log_del_travel_to

AFTER DELETE ON travel_to

FOR EACH ROW

BEGIN

DECLARE l_id INT(11);

DECLARE l_lname VARCHAR(20);

SELECT MAX(user_id) INTO l_id FROM user;

SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;

INSERT INTO log VALUES (0,'DELETE',NOW(),l_lname,'travel_to');

END \$

DELIMITER ;

.....destination.....

DELIMITER \$

CREATE TRIGGER log_del_destination

AFTER DELETE ON destination

FOR EACH ROW

BEGIN

DECLARE l_id INT(11);

DECLARE l_lname VARCHAR(20);

SELECT MAX(user_id) INTO l_id FROM user;

SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;

INSERT INTO log VALUES (0,'DELETE',NOW(),l_lname,'destination');

END \$

DELIMITER ;

.insert

.....trip.....

DELIMITER \$

CREATE TRIGGER tr_log_trip

AFTER INSERT ON trip

FOR EACH ROW

BEGIN

DECLARE l_id INT(11);

DECLARE l_lname VARCHAR(20);

SELECT MAX(user_id) INTO l_id FROM user;

SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;

INSERT INTO log VALUES (0,'INSERT',NOW(),l_lname,'trip');

END \$

DELIMITER ;

.....reservation.....

DELIMITER \$

CREATE TRIGGER tr_log_reservation

AFTER INSERT ON reservation

FOR EACH ROW

BEGIN

DECLARE l_id INT(11);

DECLARE l_lname VARCHAR(20);

SELECT MAX(user_id) INTO l_id FROM user;

SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;

INSERT INTO log VALUES (0,'INSERT',NOW(),l_lname,'reservation');

END \$

DELIMITER ;

.....event.....

```
DELIMITER $  
CREATE TRIGGER tr_log_event  
AFTER INSERT ON event  
FOR EACH ROW
```

BEGIN

```
DECLARE l_id INT(11);  
DECLARE l_lname VARCHAR(20);
```

```
SELECT MAX(user_id) INTO l_id FROM user;  
SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;  
INSERT INTO log VALUES (0,'INSERT',NOW(),l_lname,'event');
```

END \$

DELIMITER ;

.....travel_to.....

```
DELIMITER $  
CREATE TRIGGER tr_log_travel_to  
AFTER INSERT ON travel_to  
FOR EACH ROW
```

BEGIN

```
DECLARE l_id INT(11);  
DECLARE l_lname VARCHAR(20);
```

```
SELECT MAX(user_id) INTO l_id FROM user;  
SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;  
INSERT INTO log VALUES (0,'INSERT',NOW(),l_lname,'travel_to');
```

END \$

DELIMITER ;

.....destination.....

DELIMITER \$

**CREATE TRIGGER tr_log_destination
AFTER INSERT ON destination
FOR EACH ROW**

BEGIN

**DECLARE l_id INT(11);
DECLARE l_lname VARCHAR(20);**

**SELECT MAX(user_id) INTO l_id FROM user;
SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;
INSERT INTO log VALUES (0,'INSERT',NOW(),l_lname,'destination');**

END \$

DELIMITER ;

.update

.....trip.....

DELIMITER \$

CREATE TRIGGER log_up_trip

AFTER UPDATE ON trip

FOR EACH ROW

BEGIN

DECLARE l_id INT(11);

DECLARE l_lname VARCHAR(20);

SELECT MAX(user_id) INTO l_id FROM user;

SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;

INSERT INTO log VALUES (0,'UPDATE',NOW(),l_lname,'trip');

END \$

DELIMITER ;

.....reservation.....

DELIMITER \$

CREATE TRIGGER log_up_reservation

AFTER UPDATE ON reservation

FOR EACH ROW

BEGIN

DECLARE l_id INT(11);

DECLARE l_lname VARCHAR(20);

SELECT MAX(user_id) INTO l_id FROM user;

SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;

INSERT INTO log VALUES (0,'UPDATE',NOW(),l_lname,'reservation');

END \$

DELIMITER ;

.....event.....

DELIMITER \$

CREATE TRIGGER log_up_event

AFTER UPDATE ON event

FOR EACH ROW

BEGIN

DECLARE l_id INT(11);

DECLARE l_lname VARCHAR(20);

SELECT MAX(user_id) INTO l_id FROM user;

SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;

INSERT INTO log VALUES (0,'UPDATE',NOW(),l_lname,'event');

END \$

DELIMITER ;

.....travel_to.....

DELIMITER \$

CREATE TRIGGER log_up_travel_to

AFTER UPDATE ON travel_to

FOR EACH ROW

BEGIN

DECLARE l_id INT(11);

DECLARE l_lname VARCHAR(20);

SELECT MAX(user_id) INTO l_id FROM user;

SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;

INSERT INTO log VALUES (0,'UPDATE',NOW(),l_lname,'travel_to');

END \$

DELIMITER ;

.....destination.....

DELIMITER \$

CREATE TRIGGER log_up_destination

AFTER UPDATE ON destination

FOR EACH ROW

BEGIN

DECLARE l_id INT(11);

DECLARE l_lname VARCHAR(20);

SELECT MAX(user_id) INTO l_id FROM user;

SELECT user_lastname INTO l_lname FROM user WHERE user_id=l_id;

INSERT INTO log VALUES (0,'UPDATE',NOW(),l_lname,'destination');

END \$

DELIMITER ;

- Ενδεικτικά παραθέτουμε τις ενέργειες που πυροδότησαν κάποια από τα παραπάνω triggers και την διαμόρφωση του πίνακα log μετά την εκτέλεση αυτών

```
mysql> UPDATE reservation SET res_seatnum=13 WHERE res_name='Turner' AND res_lastname='Schmidt';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1  Changed: 0  Warnings: 0
```

```
mysql> delete from event where ev_tr_id=61;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO event VALUES (61,'2023-06-5 21:00:00','2023-06-05 00:00:00','tertstrtetete');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO travel_to VALUES (61,18, '2024-06-11 06:00:00', '2024-06-17 20:00:00');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO trip values(NULL,'2024-06-10 02:00:00','2024-06-18 01:00:00',2,682,1,'AK 541369','AK
row affected (0.00 sec)
```

```
mysql> INSERT INTO reservation VALUES (41,8,'Rob','Stark','ADULT');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from log;
+-----+-----+-----+-----+-----+
| log_id | log_action | action_date | action_lastname | action_table |
+-----+-----+-----+-----+-----+
| 1 | INSERT | 2023-09-12 21:54:19 | Papadopoulou | trip |
| 2 | INSERT | 2023-09-14 01:14:22 | Papadopoulou | travel_to |
| 3 | INSERT | 2023-09-14 01:34:46 | Papadopoulou | event |
| 4 | DELETE | 2023-09-14 01:36:20 | Papadopoulou | event |
| 5 | UPDATE | 2023-09-14 01:50:38 | Papadopoulou | reservation |
| 6 | INSERT | 2023-09-14 01:59:37 | Papadopoulou | reservation |
+-----+-----+-----+-----+-----+
```

3.1.4.2

```
DELIMITER $  
CREATE TRIGGER tr_date  
BEFORE UPDATE ON trip  
FOR EACH ROW  
  
BEGIN  
DECLARE counter_res INT;  
  
IF NEW.tr_departure <> OLD.tr_departure  
OR NEW.tr_return <> OLD.tr_return  
OR NEW.tr_cost <> OLD.tr_cost THEN  
  
SELECT count(res_tr_id)  
INTO counter_res  
FROM reservation  
WHERE res_tr_id=OLD.tr_id;  
  
IF counter_res > 0 THEN  
SIGNAL SQLSTATE VALUE '45000'  
SET MESSAGE_TEXT = 'This trip has reservations and cannot change the departure  
date,return date or cost!';  
END IF;  
  
END IF;  
  
END $  
DELIMITER ;
```

```
mysql> UPDATE trip  
-> SET tr_departure='2024-05-06 03:00:00',tr_return='2024-05-11 03:00:00',tr_cost=600  
-> WHERE tr_id=41;  
ERROR 1644 (45000): This trip has reservations and cannot change the departure date,return date or cost!  
mysql>
```

3.1.4.3

```
DELIMITER $
```

```
CREATE TRIGGER tr_salary
BEFORE UPDATE ON worker
FOR EACH ROW
BEGIN

IF NEW.wrk_salary<OLD.wrk_salary THEN
    SIGNAL SQLSTATE VALUE '45000'
    SET MESSAGE_TEXT = 'You cannot decrease the salary!';
END IF;
```

```
END $
```

```
DELIMITER ;
```

```
mysql> UPDATE worker
      -> SET wrk_salary=500
      -> WHERE wrk_AT= 'AK 499999';
ERROR 1644 (45000): You cannot decrease the salary!
mysql> _
```

EXTRA TRIGGER

Για την καλύτερη λειτουργία της βάσης δημιουργήσαμε ένα επιπλέον trigger, το οποίο σε κάθε νέα εισαγωγή στον πίνακα reservation καλείται και συγκρίνει τον αριθμό των κρατήσεων στο ταξίδι με τις μέγιστες θέσεις που έχουν οριστεί για αυτό. Αν οι δύο αυτές τιμές είναι ίσες, τότε αποτρέπει την εισαγωγή νέας κράτησης. Έτσι υπάρχει έλεγχος και συνέπεια στις θέσεις που έχουν οριστεί για το κάθε ταξίδι

```
DELIMITER $
```

```
CREATE TRIGGER tr_reservation  
BEFORE INSERT ON reservation  
FOR EACH ROW
```

```
BEGIN
```

```
DECLARE total_res INT;  
DECLARE total_seats INT;
```

```
SELECT tr_maxseats,count(res_tr_id)  
INTO total_seats,total_res  
FROM reservation  
INNER JOIN trip ON res_tr_id=tr_id  
WHERE res_tr_id=NEW.res_tr_id;
```

```
IF total_res = total_seats THEN  
    SIGNAL SQLSTATE VALUE '45000'  
    SET MESSAGE_TEXT = 'This trip is full!';  
END IF;
```

```
END $
```

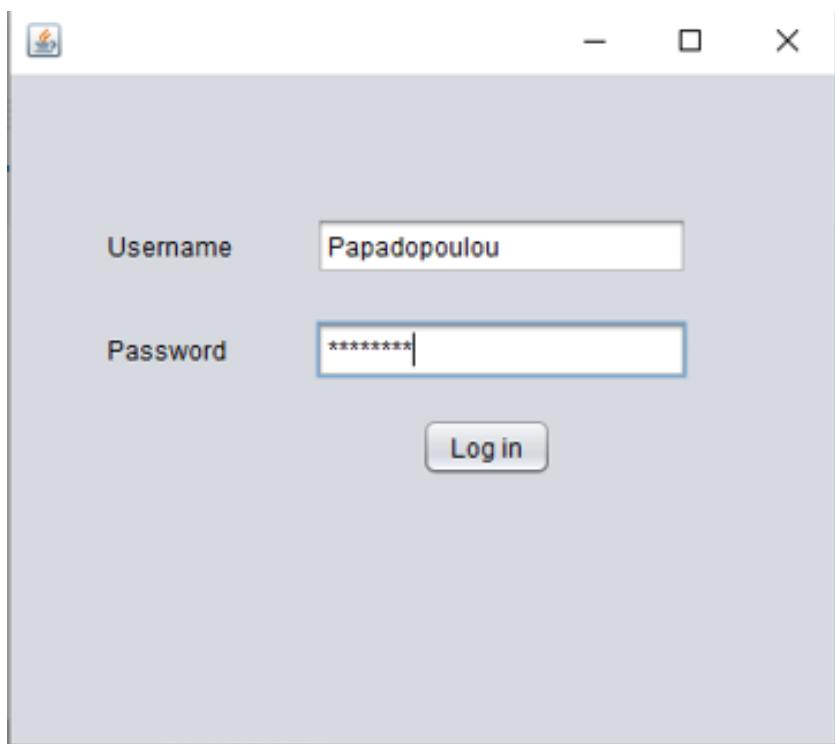
```
mysql> INSERT INTO reservation VALUES (61,3,'Emilia','Stefanidi','ADULT');  
ERROR 1644 (45000): This trip is full!
```

```
DELIMITER ;
```

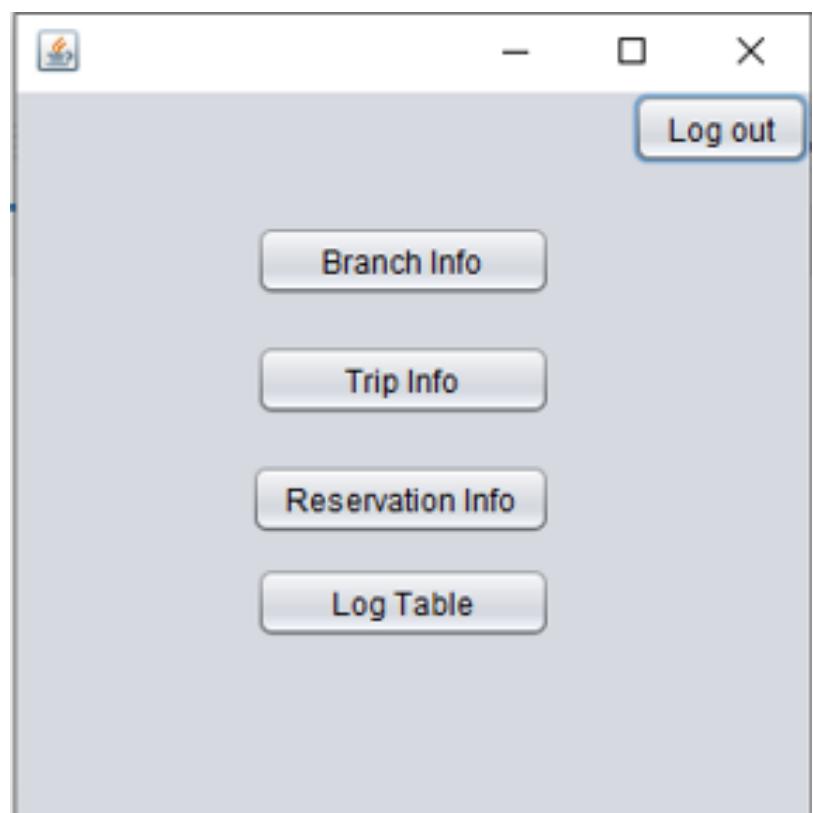
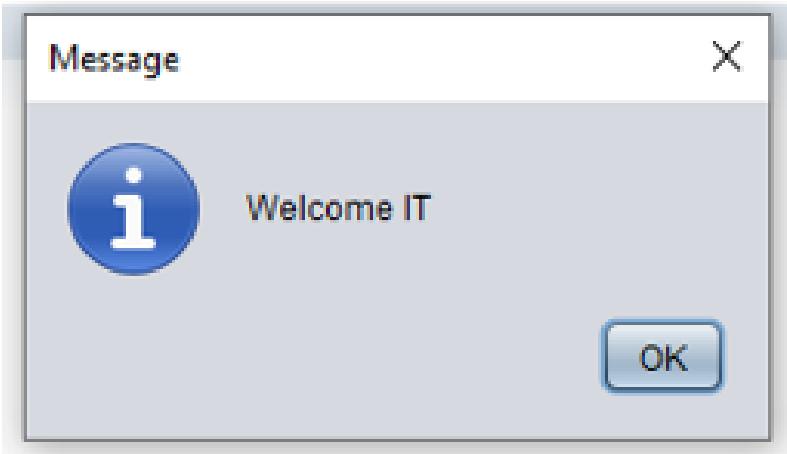
3. Μέρος Β

3.1 Σενάριο Χρήσης GUI

Στη βάση έχει καταχωρηθεί ως υπεύθυνος πληροφορικής ο χρήστης με στοιχεία σύνδεσης Lastname: 'Papadopoulou' και Password: 'kwdkos1', οπότε στο σενάριο χρήσης που ακολουθεί χρησιμοποιήθηκαν αυτά στο Login Page όπως φαίνεται παρακάτω



Αφού γίνει έλεγχος στη βάση, δηλαδή επιβεβαιωθεί ότι υπάρχει χρήστης καταχωρημένος στον πίνακα worker με wrk_status IT, τότε εμφανίζεται στην οθόνη το παρακάτω μήνυμα και αφού ο χρήστης πατήσει το 'OK' μεταφέρεται στο IT_MENU





Να σημειώσουμε πως σε όλες τις οθόνες εκτός από την Login έχουν τοποθετηθεί δυο κουμπιά(Back/Log out) τα οποία οδηγούν στην προηγούμενη σελίδα και αποσυνδέουν τον χρήστη αντίστοιχα. Τα κουμπιά αυτά βοηθούν στην καλύτερη περιήγηση του χρήστη στις οθόνες του GUI

1. Αν ο χρήστης επιλέξει το ‘Branch Info’ τότε θα μεταφερθεί στην παρακάτω οθόνη

The screenshot shows a Java Swing application window titled 'Branch Info'. The window has a standard OS X style title bar with minimize, maximize, and close buttons. In the top left corner is a 'Back' button and in the top right is a 'Log out' button.

Below the title bar, there are two dropdown menus: 'Choose Branch for information:' set to 'Branch 1' and 'Choose Branch for Employees info:' also set to 'Branch 1'.

The main area contains two tables:

- The first table has columns: Br_code, Street, Number, City, M_Name, and M_Lastname. It contains one row of data.
- The second table has columns: Br_code, Emp_Name, Emp_Lastname, and Salary. It contains three rows of data.

Below the tables are four text input fields with labels: 'Total salary expenses:', 'Total reservations:', 'Total incomes from reservations:', and 'Show info' (a button). There is also a 'Show info' button located between the two tables.

At the bottom, there is a section titled 'Choose for insert/delete/update any of these tables:' with two buttons: 'Branch' and 'Employee'.

Έχουμε δημιουργήσει δύο πίνακες στους οποίους μέσω λίστας, ο χρήστης επιλέγει το υποκατάστημα(από τα 4 branch που υπάρχουν καταχωρημένα στη βάση) που επιθυμεί ώστε να εμφανιστούν στην οθόνη τα στοιχεία του υποκαταστήματος και τα στοιχεία των εργαζόμενων αντίστοιχα.

The screenshot shows a Java Swing application window with the following interface:

- Top Bar:** Includes a "Back" button, a "Log out" button, and a title bar.
- Branch Selection:** A dropdown menu labeled "Choose Branch for information:" set to "Branch 2".
- Table 1 (Branch 2):**

Br_code	Street	Number	City	M_Name	M_Lastname
2	Ermou	25	Athens	Moshe	Abbott
- Info Button:** A "Show info" button below the first table.
- Branch Selection:** A dropdown menu labeled "Choose Branch for Employees info:" set to "Branch 3".
- Table 2 (Branch 3):**

Br_code	Emp_Name	Emp_Lastname	Salary
3	Sarai	Diaz	1000.0
3	Yadiel	Bowers	1000.0
3	Bella	Li	1000.0
3	Guadalupe	Gregory	1200.0
3	Mya	Krueger	1200.0
- Total Salary:** A text field showing "Total salary expenses : 12200.0".
- Total Reservations:** A text field showing "Total reservations : 14".
- Total Incomes:** A text field showing "Total incomes from reservations : 8066.0".
- Info Button:** A "Show info" button below the second table.
- Bottom Buttons:** Two buttons labeled "Branch" and "Employee".

Σε αυτή την οθόνη επίσης όταν ο χρήστης επιλέξει το ‘Show Info’ εκτός από τον πίνακα που θα εμφανίσει τα στοιχεία των εργαζόμενων του αντίστοιχου υποκαταστήματος, θα εμφανιστούν και αποτελέσματα στα 3 πεδία κάτω του πίνακα (Total salary expenses, Total reservations, Total incomes from reservations). Αυτά δίνουν μια επιπλέον λειτουργικότητα στο GUI όπως ζητήθηκε στην εκφώνηση

Πιο συγκεκριμένα :

- **Total salary expenses** : Σε αυτό το πεδίο θα εμφανιστούν τα συνολικά έξοδα του υποκαταστήματος που προκύπτουν από τους μισθούς των εργαζόμενων που απασχολεί. Η εντολή select που χρησιμοποιήθηκε για την εξαγωγή του αποτελέσματος είναι

```
SELECT SUM(wrk_salary)
FROM worker
WHERE wrk_br_code=3
```

όπου στο wrk_br_code= ? βάζουμε τον κωδικό του υποκαταστήματος που θέλουμε κάθε φορά

- **Total reservations** :Σε αυτό το πεδίο θα εμφανιστούν οι συνολικές κρατήσεις σε ταξίδια που έχουν καταχωρηθεί ανάλογα το υποκατάστημα που επιλέγεται. Η εντολή select που χρησιμοποιήθηκε για την εξαγωγή του αποτελέσματος είναι

```

SELECT SUM(total) AS total_reservations
FROM (
SELECT COUNT(reservation.res_tr_id) AS total
FROM reservation
INNER JOIN trip ON reservation.res_tr_id = trip.tr_id
INNER JOIN branch ON trip.tr_br_code = branch.br_code
WHERE branch.br_code = 1
GROUP BY reservation.res_tr_id
) AS subquery;

```

όπου στο branch_br_code= ? βάζουμε τον κωδικό του υποκαταστήματος που θέλουμε κάθε φορά

- **Total incomes from reservations** :Σε αυτό το πεδίο θα εμφανιστούν τα συνολικά έσοδα του υποκαταστήματος που προκύπτουν από τον πολλαπλασιασμό των κρατήσεων που έχει γίνει σε ένα ταξίδι επί το κόστος του ταξιδιού . Η εντολή select που χρησιμοποιήθηκε για την εξαγωγή του αποτελέσματος είναι

```
SELECT SUM(total) AS total_incomes
```

```
FROM(
```

```
SELECT COUNT(res_tr_id) * tr_cost AS total
FROM reservation
INNER JOIN trip ON res_tr_id=tr_id
INNER JOIN branch ON tr_br_code=br_code
WHERE br_code=2
GROUP BY res_tr_id
)AS subquery;
```

όπου στο br_code= ? βάζουμε τον κωδικό του υποκαταστήματος που θέλουμε κάθε φορά

Τέλος σε αυτή την οθόνη ο χρήστης μπορεί να επιλέγει ανάμεσα στους πίνακες branch/employee για να εκτελέσει κάποια από τις ενέργειες insert-delete-update

<div style="background-color: #f0f0f0; padding: 10px;"> <div style="margin-bottom: 10px;"> Back Log out </div> <div> <p>.Delete Branch</p> <p>Branch Code : <input type="text"/> <input type="button" value="Delete"/></p> <p>.Insert new Branch</p> <p>Branch street: <input type="text"/></p> <p>*Branch Number: <input type="text"/></p> <p>City: <input type="text"/> <input type="button" value="Insert"/></p> <p>.Update Branch</p> <p>Branch Code : <input type="text"/> <input type="button" value="Update"/></p> <p>Branch Number: <input type="text"/></p> <p>.Branch Details</p> <p>Branch Code : <input type="text"/> <input type="button" value="OK"/></p> <p>Phone : <input type="text"/></p> </div> </div>	<div style="background-color: #f0f0f0; padding: 10px;"> <p>.Insert Worker</p> <p>Worker AT: <input type="text"/></p> <p>Name: <input type="text"/></p> <p>Lastname: <input type="text"/></p> <p>Salary: <input type="text"/></p> <p>Branch code : <input type="text"/></p> <p>Status: <input type="button" value="Driver"/> <input type="button" value="Insert"/></p> </div>	<div style="background-color: #f0f0f0; padding: 10px;"> <p>.Delete Worker</p> <p>Branch code : <input type="text"/></p> <p>Name: <input type="text"/></p> <p>Lastname: <input type="text"/></p> <p>Status: <input type="button" value="Driver"/> <input type="button" value="Delete"/></p> </div>
--	---	--

Ενδεικτικά δείχνουμε την ενέργεια εισαγωγής νέου υποκαταστήματος και τηλεφώνου του, ενημέρωσης και διαγραφής

Back Log out

.Delete Branch

Branch Code : Delete

.Insert new Branch

Branch street : Prokopiou
*Branch Number : 48
City : Tripoli Insert

.Update Branch

Branch Code : Update
Branch Number :

.Branch Details

Branch Code : OK
Phone :

Message

i The insert was successfull

OK

Back Log out

.Delete Branch

Branch Code : Delete

.Insert new Branch

Branch street :

*Branch Number :

City : Insert

.Update Branch

Branch Code : 11 Update

Branch Number : 58

.Branch Details

Branch Code :

Phone : OK

Message

The branch number has changed successfully

i

OK

Back Log out

.Delete Branch

Branch Code : 11 Delete

.Insert new Branch

Branch street :

*Branch Number :

City : Insert

.Update Branch

Branch Code :

Branch Number : Update

.Branch Details

Branch Code :

Phone : OK

Message

The removal of the branch was successful

i

OK

Ενδεικτικά δείχνουμε την ενέργεια εισαγωγής νέου υπαλλήλου σε κάποιο υποκατάστημα συγκεκριμένα ενός Admin τον οποίο θα ορίσουμε και manager ώστε στην προσπάθεια διαγραφής του θα εμφανίσει μήνυμα error καθώς στον κώδικα σε αυτή την περίπτωση καλούμε την αντίστοιχη stored procedure(delete_admin)

➤ Γίνεται πάλι χρήση λίστας για την επιλογή του wrk_status του εργαζόμενου που πρόκειται να εισαχθεί, ώστε να περιοριστεί όσο γίνεται η εισαγωγή πεδίων που ο χρήστης θα πρέπει να γράψει την πληροφορία. Επίσης ανάλογα με την τιμή στο πεδίο της λίστας αφότου ολοκληρωθεί η εισαγωγή στον πίνακα worker θα εμφανιστεί μια νέα οθόνη-φόρμα συμπλήρωσης των επιπλέον πεδίων της κάθε ειδικότητας

Back Log out

.Admin Details
(Enter details for the worker you just insert)

Worker AT :

Type :

Diploma :

Message

OK i Successful insertion

.Manager
(Add an Administrative employee as manager for a branch)

Administrative AT :

Branch Code :

OK

Back Log out

.Admin Details
(Enter details for the worker you just insert)

Worker AT :

Type :

Diploma :

OK

.Manager
(Add an Administrative employee as manager for a branch)

Administrative AT :

Branch Code :

OK

Message

OK i The insert was successfull

.Admin Details
 (Enter details for the worker you just insert)

Worker AT:

Type :

Diploma :

.Manager
 (Add an Administrative employee as manager for a branch)

Administrative AT :

Branch Code :

Message

 Successful insertion

.Insert Worker

Worker AT:

Name:

Lastname:

Salary:

Branch code :

Status:

Message

 Deletion is not allowed.This person is managing a branch

.Delete Worker

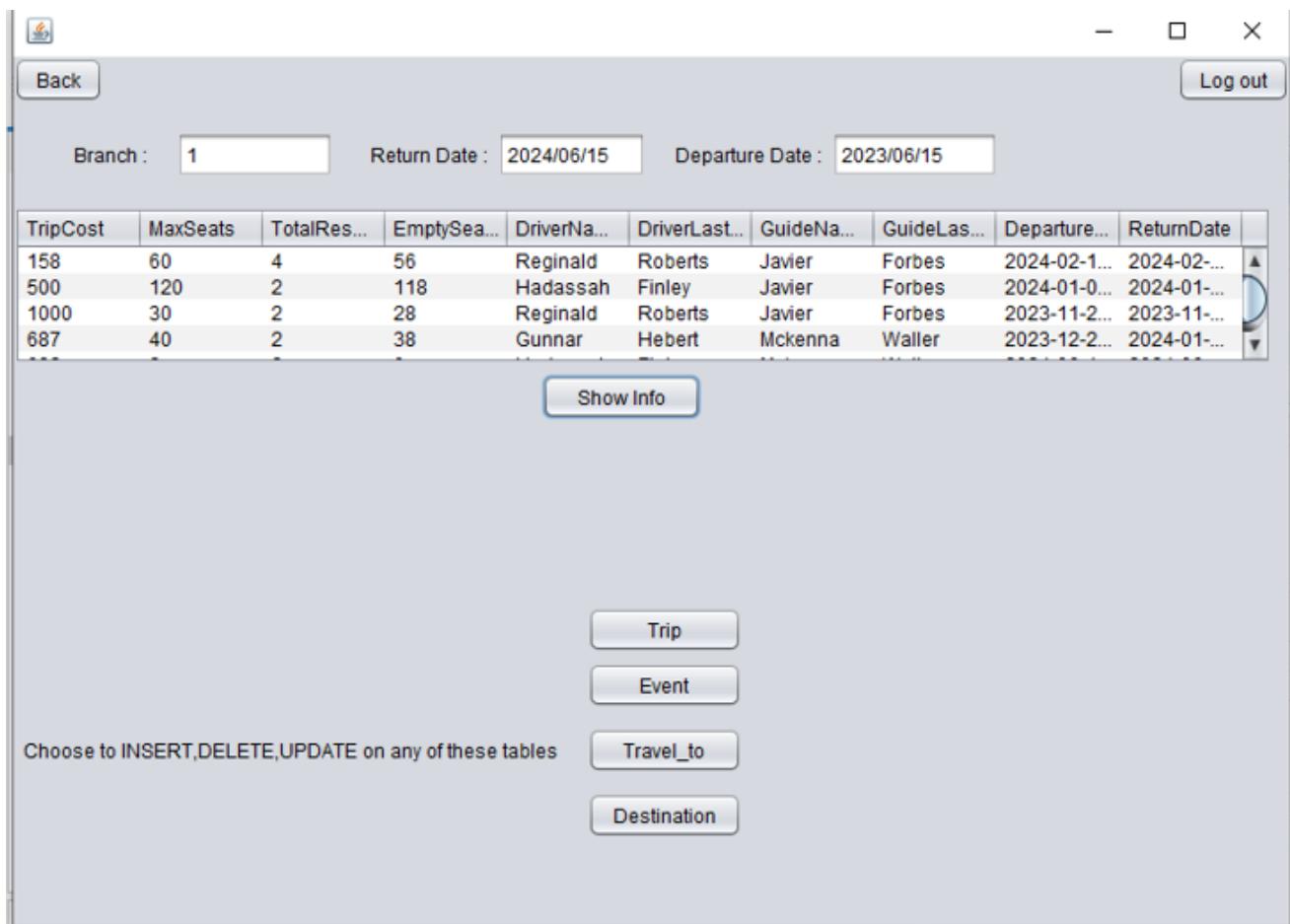
Branch code :

Name:

Lastname:

Status:

2. Αν ο χρήστης επιλέξει το ‘Trip Info’ τότε θα μεταφερθεί στην παρακάτω οθόνη



Σε αυτή την οθόνη ο χρήστης μπορεί να δει στον πίνακα στοιχεία για ταξίδια που έχουν καταχωρηθεί εισάγοντας το υποκατάστημα που επιθυμεί και ημερομηνίες επιστροφής και αναχώρησης

Ο χρήστης επιλέγοντας τον πίνακα ‘Trip’ θα μεταφερθεί στην αντίστοιχη οθόνη για την εισαγωγή νέου ταξιδιού ενώ υπάρχει πίνακας που δείχνει όλα τα καταχωρημένα ταξίδια και επιλογή να κάνει κράτηση σε κάποιο

[Back](#) [Log out](#)

Choose your action :

.Delete Trip
Trip ID : Delete

.Insert trip
DepartureDate :
ReturnDate :
MaxSeats :
Cost :
Branch :
Guide AT :
Driver AT :

Show trips

.Insert destination
Trip ID :
Destination : Ibiza

[Back](#) [Log out](#)

Choose your action :

.Delete Trip
Trip ID : Delete

.Insert trip
DepartureDate : 2024/09/15 18:38:44
ReturnDate : 2024/09/22 18:38:44
MaxSeats : 15
Cost : 500
Branch : 2
Guide AT : AK 475100
Driver AT : AK 717273

Show trips

.Insert destination
Trip ID :
Destination : Ibiza

Message
The insert was successful

Java IDE 19

```

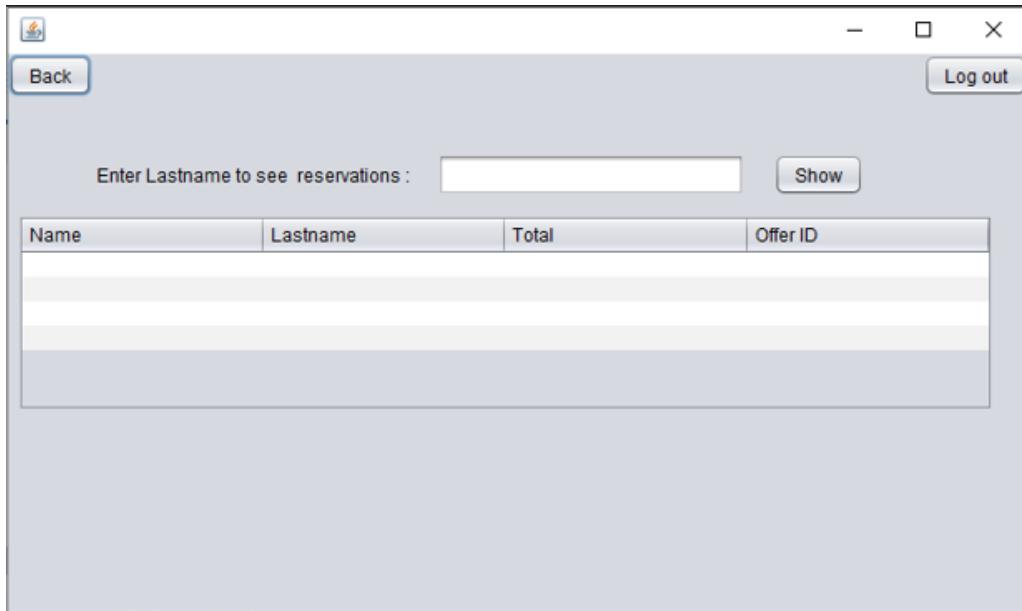
    public void actionPerformed(ActionEvent e) {
        String tripID = tripIDField.getText();
        String departureDate = departureDateField.getText();
        String returnDate = returnDateField.getText();
        int maxSeats = Integer.parseInt(maxSeatsField.getText());
        double cost = Double.parseDouble(costField.getText());
        int branch = Integer.parseInt(branchField.getText());
        String guideAT = guideATField.getText();
        String driverAT = driverATField.getText();

        Trip trip = new Trip(tripID, departureDate, returnDate, maxSeats, cost, branch, guideAT, driverAT);
        tripDAO.insertTrip(trip);

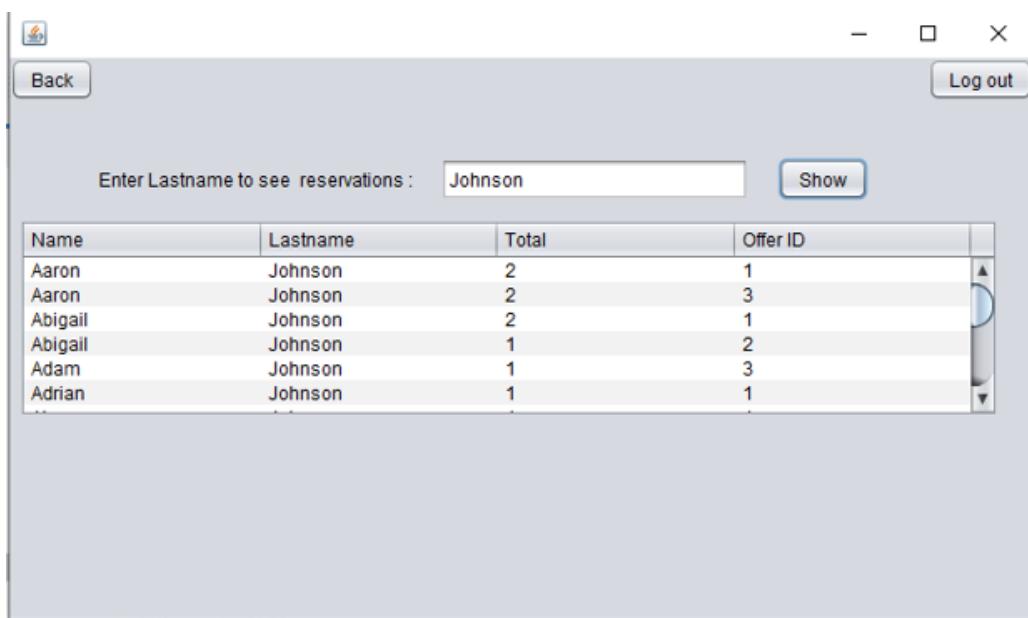
        JOptionPane.showMessageDialog(null, "The insert was successful");
    }
}

```

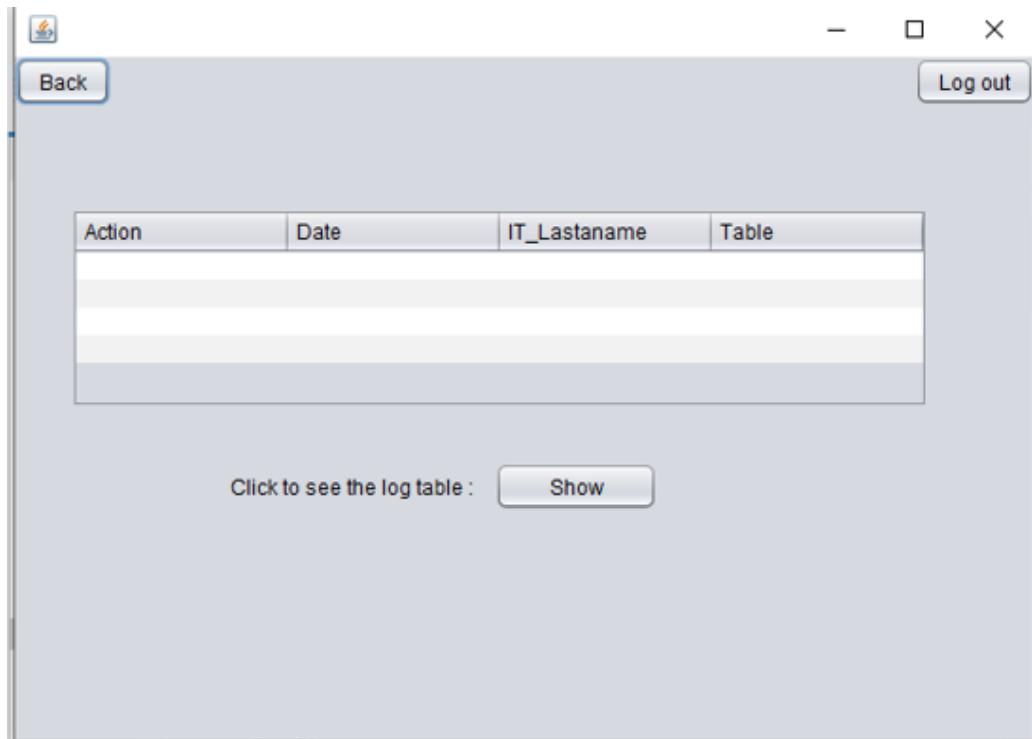
3. Αν ο χρήστης επιλέξει το ‘Reservation Info’ τότε θα μεταφερθεί στην παρακάτω οθόνη



Εδώ ο χρήστης με την εισαγωγή του επιθυμητού επωνύμου θα δει στον πίνακα τις κρατήσεις των ατόμων με αυτό το επώνυμο, σε κάθε προσφορά ταξιδιού αφού καλείται η αντίστοιχη stored procedure(`find_name_reservations`)



4. Αν ο χρήστης επιλέξει το ‘Log Table’ τότε θα μεταφερθεί στην παρακάτω οθόνη



Εδώ ο χρήστης με την επιλογή ‘Show’ θα δει στον πίνακα τα στοιχεία του πίνακα log δηλαδή τις ενέργειες του υπεύθυνου πληροφορικής στους αντίστοιχους πίνακες

- Σημειώνεται πως δεν προλάβαμε να ολοκληρώσουμε το GUI με όλα τα ζητούμενα της εκφώνησης. Τα σημεία που δεν ολοκληρώθηκαν είναι οι δυνατότητες εισαγωγής, διαγραφής και τροποποίησης σε όλους τους πίνακες της βάσης. Οι πίνακες που δεν περιγράφηκαν άλλα εμφανίστηκαν στις παραπάνω εικόνες είναι οι πίνακες που δεν ολοκληρώθηκαν στο GUI
- Όσον αφορά την μέθοδο getUser() για την εισαγωγή των στοιχείων στον πίνακα user υπάρχει στην οθόνη TripUpdate καθώς ο πίνακας trip είναι ένας από αυτούς που θα πυροδοτήσει το trigger για την εισαγωγή στον πίνακα log. Η μέθοδος που ακολουθήσαμε είναι σε κάθε μεταφορά θημιοθργία νέας οθόνης μεταφέρουμε τον currentuser σαν παράμετρο στο νέο αντικείμενο (επιθυμητή οθόνη). Ο constructor όταν καλείται έχει την τιμή του currentuser και δηλώνεται και μια νέα μέθοδος getuser() με την οποία θα παίρνουμε αυτή την τιμή κάθε φορά που την καλούμε για την εισαγωγή στον πίνακα user. Δυστυχώς έβγαζε error, συγκεκριμένα ότι το user_lastname δεν μπορεί να είναι NULL, όμως δεν καταφέραμε να το λύσουμε έγκαιρα

3.2 Κόδικας για το GUI

- AdminDetails

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template
 */

package travel_agency;
import java.sql.*;
import javax.swing.JOptionPane;
/***
 *
 * @author admin
 */
public class AdminDetails extends javax.swing.JFrame {

    Connection conn=null;
    PreparedStatement pst=null;
    ResultSet rs=null;

    /**
     * Creates new form AdminDetails
     */
    public AdminDetails() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {
```

```
jButton1 = new javax.swing.JButton();
jButton2 = new javax.swing.JButton();
jLabel1 = new javax.swing.JLabel();
jLabel6 = new javax.swing.JLabel();
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jTextField1 = new javax.swing.JTextField();
jTextField2 = new javax.swing.JTextField();
jComboBox1 = new javax.swing.JComboBox<>();
jButton3 = new javax.swing.JButton();
jLabel5 = new javax.swing.JLabel();
jLabel7 = new javax.swing.JLabel();
jTextField3 = new javax.swing.JTextField();
jTextField4 = new javax.swing.JTextField();
jLabel8 = new javax.swing.JLabel();
jLabel9 = new javax.swing.JLabel();
jButton4 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jButton1.setText("Back");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
jButton2.setText("Log out");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
jLabel1.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel1.setText(".Admin Details");

jLabel6.setText("( Enter details for the worker you just insert )");
jLabel2.setText("Worker AT :");
jLabel3.setText("Type :");
jLabel4.setText("Diploma :");
```

```
jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new
String[] { "Logistics", "Administrative", "Accounting" }));

jButton3.setText("OK");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});

jLabel5.setText("Administrative AT :");

jLabel7.setText("Branch Code :");

jLabel8.setText("( Add an Administrative employee as manager for a branch
)");

jLabel9.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel9.setText(".Manager");

jButton4.setText("OK");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});
```

```
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jButton1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
        javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jButton2))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
    layout.createSequentialGroup()
        .addGroup(layout.createSequentialGroup()
            .addGap(0, 0, Short.MAX_VALUE)
            .addComponent(jButton3)
            .addGap(198, 198, 198))
        .addGroup(layout.createSequentialGroup()
            .addGap(0, 0, Short.MAX_VALUE)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(168, 168, 168)
                    .addComponent(jLabel1))
                .addGroup(layout.createSequentialGroup()
                    .addGap(26, 26, 26)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jLabel3)
                        .addComponent(jLabel2)
                        .addComponent(jLabel4)))
                .addGap(64, 64, 64)))
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                .addComponent(jTextField2, javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jComboBox1,
                javax.swing.GroupLayout.Alignment.LEADING, 0, 163, Short.MAX_VALUE))
```

```
.addComponent(jTextField1, javax.swing.GroupLayout.Alignment.LEADING)))
    .addGroup(layout.createSequentialGroup()
        .addGap(116, 116, 116)
        .addComponent(jLabel6))
    .addGroup(layout.createSequentialGroup()
        .addGap(18, 18, 18))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel5)
    .addComponent(jLabel7))
    .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
162, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,
162, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addGroup(layout.createSequentialGroup()
        .addGap(174, 174, 174)
        .addComponent(jLabel9))
    .addGroup(layout.createSequentialGroup()
        .addGap(50, 50, 50)
        .addComponent(jLabel8))
    .addGroup(layout.createSequentialGroup()
        .addGap(183, 183, 183)
        .addComponent(jButton4)))
    .addContainerGap(93, Short.MAX_VALUE))
);
```

```
layout.setVerticalGroup()
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton1)
                .addComponent(jButton2))
            .addGap(12, 12, 12)
            .addComponent(jLabel1)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabel6)
            .addGap(26, 26, 26)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(24, 24, 24)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel3)
                .addGap(26, 26, 26)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel4)
                    .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jButton3)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 70,
            Short.MAX_VALUE)
        .addComponent(jLabel9)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jLabel8)
        .addGap(32, 32, 32)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel5)
            .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addGap(24, 24, 24)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel7)
    .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(jButton4)
    .addGap(65, 65, 65))
);

pack();
}// </editor-fold>
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    EmployeeUpdate eu=new EmployeeUpdate();
    eu.setVisible(true);
}
```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    Login log=new Login();
    log.setVisible(true);
}
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    conn=DBconnection.ConnectDB();  
  
    String AT=jTextField1.getText();  
  
    String type=jComboBox1.getSelectedItem().toString();  
  
    String diploma=jTextField2.getText();  
  
    String myQuery = "SELECT * FROM worker WHERE wrk_AT = ? ";  
    String myQuery1 = "INSERT INTO admin VALUES (?,?,?) ";  
  
    try{  
        pst=conn.prepareStatement(myQuery);  
        pst.setString(1,AT);  
        rs=pst.executeQuery();  
  
        if(rs.next()){  
            pst=conn.prepareStatement(myQuery1);  
            pst.setString(1,AT);  
            pst.setString(2,type);  
            pst.setString(3,diploma);  
            pst.executeUpdate();  
  
            JOptionPane.showMessageDialog(null, "Successful insertion");  
            jTextField1.setText("");  
            jTextField2.setText("");  
        }  
    }  
}
```

```
else {
    JOptionPane.showMessageDialog(null, "There is no worker with that AT");
}
}

catch (SQLException ex) {
    JOptionPane.showMessageDialog(null, ex);
}
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    conn=DBconnection.ConnectDB();

    String AT=jTextField3.getText();

    String bc=jTextField4.getText();
    int code=Integer.parseInt(bc);

    String myQuery="SELECT * FROM admin WHERE adm_AT = ? AND adm_type =
'ADMINISTRATIVE';
    String myQuery1="INSERT INTO manages VALUES (?,?)";
    String myQuery2="SELECT * FROM manages WHERE mng_br_code = ?";
```

```
try{
    pst=conn.prepareStatement(myQuery);
    pst.setString(1,AT);
    rs=pst.executeQuery();

    if(rs.next()){
        pst=conn.prepareStatement(myQuery2);
        pst.setInt(1,code);
        rs=pst.executeQuery();

        if(rs.next()){
            JOptionPane.showMessageDialog(null, "There is already a manager in that branch");

        }
        else{
            pst=conn.prepareStatement(myQuery1);
            pst.setString(1,AT);
            pst.setInt(2,code);
            pst.executeUpdate();

            JOptionPane.showMessageDialog(null, "Successful insertion");
            jTextField3.setText("");
            jTextField4.setText("");

        }
        this.dispose();
        BranchMenu bm=new BranchMenu();
        bm.setVisible(true);

    }
}
```

```
else {
    JOptionPane.showMessageDialog(null, "There is no administrative employee with that
AT");
}
}

catch (SQLException ex) {
JOptionPane.showMessageDialog(null, ex);
}

}**

* @param args the command line arguments
*/
public static void main(String args[]) {
/* Set the Nimbus look and feel */
//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code
(optional) ">
/* If Nimbus (introduced in Java SE 6) is not available, stay with the default
look and feel.
 * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
*/
try {
    for (javax.swing.UIManager.LookAndFeelInfo info :
        javax.swing.UIManager.getInstalledLookAndFeels()) {
        if ("Nimbus".equals(info.getName())) {
            javax.swing.UIManager.setLookAndFeel(info.getClassName());
            break;
        }
    }
} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(AdminDetails.class.getName()).log(java.util.log
ging.Level.SEVERE, null, ex);
} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(AdminDetails.class.getName()).log(java.util.log
ging.Level.SEVERE, null, ex);
} catch (IllegalAccessException ex) {

} }
```

```
java.util.logging.Logger.getLogger(AdminDetails.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
} catch (javax.swing.UnsupportedLookAndFeelException ex) {
    java.util.logging.Logger.getLogger(AdminDetails.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
}

//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new AdminDetails().setVisible(true);
    }
});

}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JComboBox<String> jComboBox1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
private javax.swing.JTextField jTextField4;
// End of variables declaration
```

• BranchMenu

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
 */
package travel_agency;

import java.sql.*;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author admin
 */
public class BranchMenu extends javax.swing.JFrame {

    Connection conn=null;
    PreparedStatement pst=null;
    ResultSet rs=null;
    private String currentUser;
    /**
     * Creates new form BranchMenu
     */
    public BranchMenu() {
        initComponents();
    }
}
```

```
public BranchMenu(String currentUser) {  
    initComponents();  
    this.currentUser = currentUser;  
}  
  
public String getUser() {  
    return this.currentUser;  
}  
  
/**  
 * This method is called from within the constructor to initialize the form.  
 * WARNING: Do NOT modify this code. The content of this method is always  
 * regenerated by the Form Editor.  
 */  
@SuppressWarnings("unchecked")  
// <editor-fold defaultstate="collapsed" desc="Generated Code">  
private void initComponents() {  
  
    jButton1 = new javax.swing.JButton();  
    jScrollPane2 = new javax.swing.JScrollPane();  
    jTable1 = new javax.swing.JTable();  
    jLabel2 = new javax.swing.JLabel();  
    jButton5 = new javax.swing.JButton();  
    jLabel1 = new javax.swing.JLabel();  
    jScrollPane1 = new javax.swing.JScrollPane();  
    jTable2 = new javax.swing.JTable();  
    jComboBox1 = new javax.swing.JComboBox<>();  
    jComboBox2 = new javax.swing.JComboBox<>();  
    jButton11 = new javax.swing.JButton();  
    jButton12 = new javax.swing.JButton();  
    jLabel3 = new javax.swing.JLabel();  
    jButton2 = new javax.swing.JButton();  
    jButton3 = new javax.swing.JButton();  
    jTextField1 = new javax.swing.JTextField();  
    jLabel4 = new javax.swing.JLabel();  
    jTextField2 = new javax.swing.JTextField();  
    jLabel5 = new javax.swing.JLabel();  
    jTextField3 = new javax.swing.JTextField();  
    jLabel6 = new javax.swing.JLabel();
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jButton1.setText("Log out");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null, null, null},
        {null, null, null, null, null, null},
        {null, null, null, null, null, null},
        {null, null, null, null, null, null}
    },
    new String [] {
        "Br_code", "Street", "Number", "City", "M_Name", "M_Lastname"
    }
));
jScrollPane2.setViewportView(jTable1);

jLabel2.setText("Choose Branch for information:");

jButton5.setText("Back");
jButton5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton5ActionPerformed(evt);
    }
});
```

```
jLabel1.setText("Choose Branch for Employees info:");

jTable2.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Br_code", "Emp_Name", "Emp_Lastname", "Salary"
    }
));
jScrollPane1.setViewportView(jTable2);

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel(new String[] {
"Branch 1", "Branch 2", "Branch 3", "Branch 4" }));
jComboBox2.setModel(new javax.swing.DefaultComboBoxModel(new String[] {
"Branch 1", "Branch 2", "Branch 3", "Branch 4" }));

jButton11.setText("Show info");
jButton11.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton11ActionPerformed(evt);
    }
});
```

```
jButton12.setText("Show info");
jButton12.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton12ActionPerformed(evt);
    }
});
```

```
jLabel3.setText("Choose for insert/delete/update any of these tables :");
```

```
jButton2.setText("Branch");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
```

```
jButton3.setText("Employee");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
```

```
jLabel4.setText("Total salary expenses :");

jLabel5.setText("Total reservations :");

jLabel6.setText("Total incomes from reservations :");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jButton5)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
        javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jButton1))
    .addGroup(layout.createSequentialGroup()
        .addContainerGap()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jButton2)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.PREFERRED_SIZE))
            .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addGroup(layout.createSequentialGroup()
        .addGap(38, 38, 38)
        .addComponent(containerGap, Short.MAX_VALUE)))
);
```

```
.addGroup(javax.swing.GroupLayout.Alignment.LEADING, layout.createSequentialGroup())

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
    .addGroup(layout.createSequentialGroup()
        .addGap(197, 197, 197)
        .addComponent(jButton11))
    .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jComboBox2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup()
    .addComponent(jLabel3)
    .addGap(30, 30, 30))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 82,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jButton3)))
    .addGroup(0, 0, Short.MAX_VALUE)))
.addGroup(javax.swing.GroupLayout.Alignment.LEADING, layout.createSequentialGroup()
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
        .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup()
                .addGap(228, 228, 228)
                .addComponent(jButton12))
            .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup()
                .addGap(0, 0, Short.MAX_VALUE)
                .addComponent(jButton11)))
        .addComponent(jLabel2)))
    .addGroup(layout.createSequentialGroup()
        .addGap(0, 0, Short.MAX_VALUE)
        .addComponent(jButton10)))
.layout.createSequentialGroup()
    .addComponent(containerGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel4)
    .addComponent(jLabel5)
    .addComponent(jLabel6))
    .addGroup(18, 18, 18)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addComponent(jTextField3, javax.swing.GroupLayout.DEFAULT_SIZE,
109, Short.MAX_VALUE)
    .addComponent(jTextField2)
    .addComponent(jTextField1))))
.addGap(0, 0, Short.MAX_VALUE))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jButton1)
            .addComponent(jButton5)))
        .addGap(26, 26, 26)
    )
);
.layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel2)
    .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(8, 8, 8)
.addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(jButton11)
.addGap(83, 83, 83));
.layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel1)
    .addComponent(jComboBox2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 107,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel4))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel5))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel6))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(jButton12)
.addGap(35, 35, 35)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel3))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(jButton3))
    .addComponent(jButton2))
.addGap(73, 73, 73))
);

pack();
}// </editor-fold>
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    Login log=new Login();
    log.setVisible(true);
}
```

```

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    MENU_IT mn=new MENU_IT();
    mn.setVisible(true);
}

private void jButton11ActionPerformed(java.awt.event.ActionEvent evt) {
    DefaultTableModel mytbl = (DefaultTableModel) jTable1.getModel();
    mytbl.setRowCount(0);
    conn=DBconnection.ConnectDB();
    String branch=jComboBox1.getSelectedItem().toString();
    String myquery="SELECT mng_br_code,br_street,br_num,br_city,wrk_name,wrk_lname
FROM manages INNER JOIN branch ON mng_br_code=br_code INNER JOIN admin ON
mng_adm_AT=adm_AT INNER JOIN worker ON adm_AT=wrk_AT WHERE
mng_br_code=1";
    String myquery1="SELECT
mng_br_code,br_street,br_num,br_city,wrk_name,wrk_lname FROM manages INNER JOIN
branch ON mng_br_code=br_code INNER JOIN admin ON mng_adm_AT=adm_AT INNER
JOIN worker ON adm_AT=wrk_AT WHERE mng_br_code=2";
    String myquery2="SELECT
mng_br_code,br_street,br_num,br_city,wrk_name,wrk_lname FROM manages INNER JOIN
branch ON mng_br_code=br_code INNER JOIN admin ON mng_adm_AT=adm_AT INNER
JOIN worker ON adm_AT=wrk_AT WHERE mng_br_code=3";
    String myquery3="SELECT
mng_br_code,br_street,br_num,br_city,wrk_name,wrk_lname FROM manages INNER JOIN
branch ON mng_br_code=br_code INNER JOIN admin ON mng_adm_AT=adm_AT INNER
JOIN worker ON adm_AT=wrk_AT WHERE mng_br_code=4";
    try{
        switch(branch){
            case "Branch 1":
                pst=conn.prepareStatement(myquery);
                rs= pst.executeQuery();

```

```

while(rs.next()){

    int bc = rs.getInt("mng_br_code");
    String mng_br_code=String.valueOf(bc);
    String br_street=rs.getString("br_street");
    int bn = rs.getInt("br_num");
    String br_num=String.valueOf(bn);
    String br_city=rs.getString("br_city");
    String wrk_name=rs.getString("wrk_name");
    String wrk_lname=rs.getString("wrk_lname");

    String table1[]={mng_br_code,br_street,br_num,br_city,wrk_name,wrk_lname};
    mytbl.addRow(table1);
}

break;

case "Branch 2":
    pst=conn.prepareStatement(myquery1);
    rs= pst.executeQuery();
    while(rs.next()){

        int bc = rs.getInt("mng_br_code");
        String mng_br_code=String.valueOf(bc);
        String br_street=rs.getString("br_street");
        int bn = rs.getInt("br_num");
        String br_num=String.valueOf(bn);
        String br_city=rs.getString("br_city");
        String wrk_name=rs.getString("wrk_name");
        String wrk_lname=rs.getString("wrk_lname");

        String table1[]={mng_br_code,br_street,br_num,br_city,wrk_name,wrk_lname};
        mytbl.addRow(table1);
    }

break;

```

```

case "Branch 3":
    pst=conn.prepareStatement(myquery2);
    rs= pst.executeQuery();
    while(rs.next()){
        int bc = rs.getInt("mng_br_code");
        String mng_br_code=String.valueOf(bc);
        String br_street=rs.getString("br_street");
        int bn = rs.getInt("br_num");
        String br_num=String.valueOf(bn);
        String br_city=rs.getString("br_city");
        String wrk_name=rs.getString("wrk_name");
        String wrk_lname=rs.getString("wrk_lname");

        String table1[]={mng_br_code,br_street,br_num,br_city,wrk_name,wrk_lname};
        mytbl.addRow(table1);
    }
    break;

case"Branch 4":
    pst=conn.prepareStatement(myquery3);
    rs= pst.executeQuery();
    while(rs.next()){
        int bc = rs.getInt("mng_br_code");
        String mng_br_code=String.valueOf(bc);
        String br_street=rs.getString("br_street");
        int bn = rs.getInt("br_num");
        String br_num=String.valueOf(bn);
        String br_city=rs.getString("br_city");
        String wrk_name=rs.getString("wrk_name");
        String wrk_lname=rs.getString("wrk_lname");

        String table1[]={mng_br_code,br_street,br_num,br_city,wrk_name,wrk_lname};
        mytbl.addRow(table1);
    }
    break;
}
}

catch(SQLException ex){
    JOptionPane.showMessageDialog(null,ex);
}

}
}

```

```
private void jButton12ActionPerformed(java.awt.event.ActionEvent evt) {  
    DefaultTableModel mytbl = (DefaultTableModel) jTable2.getModel();  
    mytbl.setRowCount(0);  
    conn=DBconnection.ConnectDB();  
    String branch=jComboBox2.getSelectedItem().toString();  
    ResultSet rs1;  
    ResultSet rs2;  
    ResultSet rs3;  
  
    String myquery="SELECT br_code,wrk_name,wrk_lname,wrk_salary FROM worker INNER JOIN  
branch ON wrk_br_code=br_code WHERE br_code=1";  
    String myquery1="SELECT br_code,wrk_name,wrk_lname,wrk_salary FROM worker INNER  
JOIN branch ON wrk_br_code=br_code WHERE br_code=2";  
    String myquery2="SELECT br_code,wrk_name,wrk_lname,wrk_salary FROM worker INNER  
JOIN branch ON wrk_br_code=br_code WHERE br_code=3";  
    String myquery3="SELECT br_code,wrk_name,wrk_lname,wrk_salary FROM worker INNER  
JOIN branch ON wrk_br_code=br_code WHERE br_code=4";  
    String myquery4="SELECT SUM(wrk_salary) AS total_expenses FROM worker WHERE  
wrk_br_code=1";  
    String myquery5="SELECT SUM(wrk_salary) AS total_expenses FROM worker WHERE  
wrk_br_code=2";  
    String myquery6="SELECT SUM(wrk_salary) AS total_expenses FROM worker WHERE  
wrk_br_code=3";  
    String myquery7="SELECT SUM(wrk_salary) AS total_expenses FROM worker WHERE  
wrk_br_code=4";  
    String myquery8="SELECT SUM(total) AS total_reservations FROM (SELECT  
COUNT(reservation.res_tr_id) AS total FROM reservation INNER JOIN trip ON reservation.res_tr_id =  
trip.tr_id INNER JOIN branch ON trip.tr_br_code = branch.br_code WHERE branch.br_code = 1  
GROUP BY reservation.res_tr_id) AS subquery";  
    String myquery9="SELECT SUM(total) AS total_reservations FROM (SELECT  
COUNT(reservation.res_tr_id) AS total FROM reservation INNER JOIN trip ON reservation.res_tr_id =  
trip.tr_id INNER JOIN branch ON trip.tr_br_code = branch.br_code WHERE branch.br_code = 2  
GROUP BY reservation.res_tr_id) AS subquery";  
    String myquery10="SELECT SUM(total) AS total_reservations FROM (SELECT  
COUNT(reservation.res_tr_id) AS total FROM reservation INNER JOIN trip ON reservation.res_tr_id =  
trip.tr_id INNER JOIN branch ON trip.tr_br_code = branch.br_code WHERE branch.br_code = 3  
GROUP BY reservation.res_tr_id) AS subquery";  
    String myquery11="SELECT SUM(total) AS total_reservations FROM (SELECT  
COUNT(reservation.res_tr_id) AS total FROM reservation INNER JOIN trip ON reservation.res_tr_id =  
trip.tr_id INNER JOIN branch ON trip.tr_br_code = branch.br_code WHERE branch.br_code = 4  
GROUP BY reservation.res_tr_id) AS subquery";
```

```
String myquery12="SELECT SUM(total) AS total_incomes FROM(SELECT  
COUNT(res_tr_id) * tr_cost AS total FROM reservation INNER JOIN trip ON res_tr_id=tr_id  
INNER JOIN branch ON tr_br_code=br_code WHERE br_code=1 GROUP BY res_tr_id )AS  
subquery"
```

```
String myquery13="SELECT SUM(total) AS total_incomes FROM(SELECT  
COUNT(res_tr_id) * tr_cost AS total FROM reservation INNER JOIN trip ON res_tr_id=tr_id  
INNER JOIN branch ON tr_br_code=br_code WHERE br_code=2 GROUP BY res_tr_id )AS  
subquery"
```

```
String myquery14="SELECT SUM(total) AS total_incomes FROM(SELECT  
COUNT(res_tr_id) * tr_cost AS total FROM reservation INNER JOIN trip ON res_tr_id=tr_id  
INNER JOIN branch ON tr_br_code=br_code WHERE br_code=3 GROUP BY res_tr_id )AS  
subquery"
```

```
String myquery15="SELECT SUM(total) AS total_incomes FROM(SELECT  
COUNT(res_tr_id) * tr_cost AS total FROM reservation INNER JOIN trip ON res_tr_id=tr_id  
INNER JOIN branch ON tr_br_code=br_code WHERE br_code=4 GROUP BY res_tr_id )AS  
subquery"
```

```
try{
```

```
    switch(branch){  
        case "Branch 1":  
            pst=conn.prepareStatement(myquery);  
            rs= pst.executeQuery();  
  
            while(rs.next()){  
                int bc = rs.getInt("br_code");  
                String br_code=String.valueOf(bc);  
                String wrk_name=rs.getString("wrk_name");  
                String wrk_lname=rs.getString("wrk_lname");  
                double ws = rs.getDouble("wrk_salary");  
                String wrk_salary=String.valueOf(ws);  
            }  
    }  
}
```

```
String table1[]={br_code,wrk_name,wrk_lname,wrk_salary};  
mytbl.addRow(table1);  
  
pst=conn.prepareStatement(myquery4);  
rs1=pst.executeQuery();  
if (rs1.next()) {  
  
    String expenses = rs1.getString("total_expenses");  
    jTextField1.setText(expenses);  
    jTextField1.setEditable(false);  
} else {  
    jTextField1.setText("No data found");  
}  
  
pst=conn.prepareStatement(myquery8);  
rs2=pst.executeQuery();  
if (rs2.next()) {  
  
    String totalres = rs2.getString("total_reservations");  
    jTextField2.setText(totalres);  
    jTextField2.setEditable(false);  
} else {  
    jTextField2.setText("No reservations found");  
}  
  
pst=conn.prepareStatement(myquery12);  
rs3=pst.executeQuery();  
if (rs3.next()) {  
  
    String totalres = rs3.getString("total_incomes");  
    jTextField3.setText(totalres);  
    jTextField3.setEditable(false);  
} else {  
    jTextField3.setText("No incomes found");  
}  
  
}  
  
break;
```

case "Branch 2":

```
    pst=conn.prepareStatement(myquery1);
    rs= pst.executeQuery();

    while(rs.next()){
        int bc = rs.getInt("br_code");
        String br_code=String.valueOf(bc);
        String wrk_name=rs.getString("wrk_name");
        String wrk_lname=rs.getString("wrk_lname");
        double ws = rs.getDouble("wrk_salary");
        String wrk_salary=String.valueOf(ws);
```

```
    String table1[]={br_code,wrk_name,wrk_lname,wrk_salary};
    mytbl.addRow(table1);
```

```
    pst=conn.prepareStatement(myquery5);
    rs1=pst.executeQuery();
    if (rs1.next()) {

        String expenses = rs1.getString("total_expenses");
        jTextField1.setText(expenses);
        jTextField1.setEditable(false);
    } else {
        jTextField1.setText("No data found");
    }
```

```
    pst=conn.prepareStatement(myquery9);
    rs2=pst.executeQuery();
    if (rs2.next()) {

        String totalres = rs2.getString("total_reservations");
        jTextField2.setText(totalres);
        jTextField2.setEditable(false);
```

```
    } else {
        jTextField2.setText("No reservations found");
    }
    pst=conn.prepareStatement(myquery13);
    rs3=pst.executeQuery();
    if (rs3.next()) {

        String totalres = rs3.getString("total_incomes");
        jTextField3.setText(totalres);
        jTextField3.setEditable(false);
    } else {
        jTextField3.setText("No incomes found");
    }
}

break;
case "Branch 3":
    pst=conn.prepareStatement(myquery2);
    rs= pst.executeQuery();

    while(rs.next()){
        int bc = rs.getInt("br_code");
        String br_code=String.valueOf(bc);
        String wrk_name=rs.getString("wrk_name");
        String wrk_lname=rs.getString("wrk_lname");
        double ws = rs.getDouble("wrk_salary");
        String wrk_salary=String.valueOf(ws);
```

```
String table1[]={br_code,wrk_name,wrk_lname,wrk_salary};  
mytbl.addRow(table1);  
  
pst=conn.prepareStatement(myquery6);  
rs1=pst.executeQuery();  
if (rs1.next()) {  
  
    String expenses = rs1.getString("total_expenses");  
    jTextField1.setText(expenses);  
    jTextField1.setEditable(false);  
}  
else {  
    jTextField1.setText("No data found");  
}  
  
pst=conn.prepareStatement(myquery10);  
rs2=pst.executeQuery();  
if (rs2.next()) {  
  
    String totalres = rs2.getString("total_reservations");  
    jTextField2.setText(totalres);  
    jTextField2.setEditable(false);  
}  
else {  
    jTextField2.setText("No reservations found");  
}  
  
pst=conn.prepareStatement(myquery14);  
rs3=pst.executeQuery();  
if (rs3.next()) {  
  
    String totalres = rs3.getString("total_incomes");  
    jTextField3.setText(totalres);  
    jTextField3.setEditable(false);  
}  
else {  
    jTextField3.setText("No incomes found");  
}  
  
}  
break;
```

```
case "Branch 4":
```

```
    pst=conn.prepareStatement(myquery3);
    rs= pst.executeQuery();

    while(rs.next()){
        int bc = rs.getInt("br_code");
        String br_code=String.valueOf(bc);
        String wrk_name=rs.getString("wrk_name");
        String wrk_lname=rs.getString("wrk_lname");
        double ws = rs.getDouble("wrk_salary");
        String wrk_salary=String.valueOf(ws);
```

```
    String table1[]={br_code,wrk_name,wrk_lname,wrk_salary};
    mytbl.addRow(table1);
```

```
    pst=conn.prepareStatement(myquery7);
    rs1=pst.executeQuery();
    if (rs1.next()) {

        String expenses = rs1.getString("total_expenses");
        jTextField1.setText(expenses);
        jTextField1.setEditable(false);
    } else {
        jTextField1.setText("No data found");
    }

    pst=conn.prepareStatement(myquery11);
    rs2=pst.executeQuery();
    if (rs2.next()) {

        String totalres = rs2.getString("total_reservations");
        jTextField2.setText(totalres);
        jTextField2.setEditable(false);
    } else {
        jTextField2.setText("No reservations found");
    }
```

```
    pst=conn.prepareStatement(myquery15);
        rs3=pst.executeQuery();
        if (rs3.next()) {

            String totalres = rs3.getString("total_incomes");
            jTextField3.setText(totalres);
            jTextField3.setEditable(false);
        } else {
            jTextField3.setText("No incomes found");
        }
    }
break;
```

```
    }
}

catch(SQLException ex){
    JOptionPane.showMessageDialog(null,ex);

}
```

```
}
```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    String str = getUser();
    this.dispose();
    BranchUpdate bu=new BranchUpdate();
    bu.setVisible(true);

}
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    String str = getUser();
    this.dispose();
    EmployeeUpdate eu=new EmployeeUpdate();
    eu.setVisible(true);

}
```

```
/**  
 * @param args the command line arguments  
 */  
public static void main(String args[]) {  
    /* Set the Nimbus look and feel */  
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html  
     */  
    try {  
        for (javax.swing.UIManager.LookAndFeelInfo info :  
            javax.swing.UIManager.getInstalledLookAndFeels()) {  
            if ("Nimbus".equals(info.getName())) {  
                javax.swing.UIManager.setLookAndFeel(info.getClassName());  
                break;  
            }  
        }  
    } catch (ClassNotFoundException ex) {  
  
        java.util.logging.Logger.getLogger(BranchMenu.class.getName()).log(java.util.logging.Level.SEVERE  
        , null, ex);  
    } catch (InstantiationException ex) {  
  
        java.util.logging.Logger.getLogger(BranchMenu.class.getName()).log(java.util.logging.Level.SEVERE  
        , null, ex);  
    } catch (IllegalAccessException ex) {  
  
        java.util.logging.Logger.getLogger(BranchMenu.class.getName()).log(java.util.logging.Level.SEVERE  
        , null, ex);  
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
  
        java.util.logging.Logger.getLogger(BranchMenu.class.getName()).log(java.util.logging.Level.SEVERE  
        , null, ex);  
    }  
    //</editor-fold>  
  
    /* Create and display the form */  
    java.awt.EventQueue.invokeLater(new Runnable() {  
        public void run() {  
            new BranchMenu().setVisible(true);  
        }  
    });  
}
```

```
// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton11;
private javax.swing.JButton jButton12;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton5;
private javax.swing.JComboBox<String> jComboBox1;
private javax.swing.JComboBox<String> jComboBox2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane2;
private javax.swing.JTable jTable1;
private javax.swing.JTable jTable2;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
// End of variables declaration
```

```
}
```

- BranchUpdate

```
*  
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this  
license  
* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this  
template  
*/  
package travel_agency;  
  
import java.sql.*;  
import javax.swing.JOptionPane;  
  
/**  
 *  
 * @author admin  
 */  
public class BranchUpdate extends javax.swing.JFrame {  
    Connection conn=null;  
    PreparedStatement pst=null;  
    ResultSet rs=null;  
  
    /**  
     * Creates new form BranchUpdate  
     */  
    public BranchUpdate() {  
        initComponents();  
    }  
}
```

```
/**  
 * This method is called from within the constructor to initialize the form.  
 * WARNING: Do NOT modify this code. The content of this method is always  
 * regenerated by the Form Editor.  
 */  
  
@SuppressWarnings("unchecked")  
// <editor-fold defaultstate="collapsed" desc="Generated Code">  
private void initComponents() {  
  
    jLabel9 = new javax.swing.JLabel();  
    jLabel1 = new javax.swing.JLabel();  
    jTextField1 = new javax.swing.JTextField();  
    jLabel2 = new javax.swing.JLabel();  
    jLabel3 = new javax.swing.JLabel();  
    jTextField2 = new javax.swing.JTextField();  
    jTextField3 = new javax.swing.JTextField();  
    jLabel4 = new javax.swing.JLabel();  
    jButton1 = new javax.swing.JButton();  
    jTextField4 = new javax.swing.JTextField();  
    jTextField5 = new javax.swing.JTextField();  
    jLabel5 = new javax.swing.JLabel();  
    jLabel7 = new javax.swing.JLabel();  
    jButton2 = new javax.swing.JButton();  
    jLabel10 = new javax.swing.JLabel();  
    jButton3 = new javax.swing.JButton();  
    jButton4 = new javax.swing.JButton();  
    jButton5 = new javax.swing.JButton();  
    jLabel12 = new javax.swing.JLabel();  
    jTextField7 = new javax.swing.JTextField();  
    jLabel11 = new javax.swing.JLabel();  
    jLabel13 = new javax.swing.JLabel();  
    jTextField6 = new javax.swing.JTextField();  
    jLabel6 = new javax.swing.JLabel();  
    jLabel14 = new javax.swing.JLabel();  
    jLabel8 = new javax.swing.JLabel();  
    jTextField8 = new javax.swing.JTextField();  
    jButton6 = new javax.swing.JButton();  
    jSeparator1 = new javax.swing.JSeparator();
```

```
jLabel9.setText("jLabel9");

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel1.setText(".Insert new Branch");

jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});

jLabel2.setText("Branch street :");

jLabel3.setText("*Branch Number :");

jTextField2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField2ActionPerformed(evt);
    }
});

jTextField3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField3ActionPerformed(evt);
    }
});

jLabel4.setText("City :");

jButton1.setText("Insert");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
```

```
jLabel5.setText("Phone :");

jLabel7.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel7.setText(".Branch Details");

jButton2.setText("OK");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

jLabel10.setText("Branch Code :");

jButton3.setText("Log out");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});

jButton4.setText("Back");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});

jButton5.setText("Delete");
jButton5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton5ActionPerformed(evt);
    }
});
```

```
jLabel12.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel12.setText(".Delete Branch ");

jLabel11.setText("Branch Code :");

jLabel13.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel13.setText(".Update Branch");

jLabel14.setText("Branch Code :");

jLabel8.setText("Branch Number :");

jButton6.setText("Update");
jButton6.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton6ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE, 176, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jTextField7, javax.swing.GroupLayout.PREFERRED_SIZE, 176, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
            .addComponent(jLabel11)
            .addComponent(jLabel5))
        .addGroup(layout.createSequentialGroup()
            .addGap(60, 60, 60)
            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 176, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE, 176, javax.swing.GroupLayout.PREFERRED_SIZE)))
);
```

```
.addGap(18, 18, 18)
    .addComponent(jButton2)
    .addGap(0, 0, Short.MAX_VALUE))
.addGroup(layout.createSequentialGroup()
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jSeparator1)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jButton4)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jButton3))
        .addGroup(layout.createSequentialGroup()
```



```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createSequentialGroup())
            .addGap(25, 25, 25)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
```

```
Alignment.LEADING)
    .addComponent(jLabel6)
    .addComponent(jLabel12)
    .addComponent(jLabel13)

.layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup()

.addComponent(jLabel8)
    .addGap(53, 53, 53)
    .addComponent(jTextField8))
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup()
    .addComponent(jLabel14)
    .addGap(69, 69, 69)
    .addComponent(jTextField6,
javax.swing.GroupLayout.PREFERRED_SIZE, 176, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addGap(29, 29, 29)
    .addComponent(jButton6))
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup()
    .addComponent(jLabel10)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(jButton5))
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup()
    .addGap(6, 6, 6)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel3)
    .addComponent(jLabel2))
    .addGap(48, 48, 48)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jTextField3,
javax.swing.GroupLayout.PREFERRED_SIZE, 176, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jTextField2,
javax.swing.GroupLayout.PREFERRED_SIZE, 176, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 43,
Short.MAX_VALUE)
            .addComponent(jButton1))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
        .addComponent(jTextField4,
javax.swing.GroupLayout.PREFERRED_SIZE, 176, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jTextField1,
javax.swing.GroupLayout.PREFERRED_SIZE, 176, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addComponent(jLabel4)
            .addComponent(jLabel1)))))

.addGroup(layout.createSequentialGroup()
    .addGap(205, 205, 205)
    .addComponent(jLabel7)))
    .addGap(0, 95, Short.MAX_VALUE)))
    .addContainerGap())
);

layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jButton4)
            .addComponent(jButton3))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jLabel12)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel10)
            .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jButton5))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jLabel1)
        .addContainerGap())
    )
);
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGroupGap(25, 25, 25)
        .addComponent(jLabel2)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jLabel3)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jLabel4))
    .addGroup(layout.createSequentialGroup()
        .addGapGap(28, 28, 28)
        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGapGap(6, 6, 6))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jButton1))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addGapGap(31, 31, 31)
    .addComponent(jLabel13)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jLabel1)
            .addGapPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(jLabel2))
        .addGroup(layout.createSequentialGroup()
            .addGapGroupGap(9, 9, 9)

..addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel11)
    .addComponent(jTextField7, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED))
```

```
addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel8)
    .addComponent(jTextField8, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(layout.createSequentialGroup()
        .addGap(28, 28, 28)
        .addComponent(jButton6)))
    .addGap(37, 37, 37)
    .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(jLabel7)
    .addGap(15, 15, 15)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(23, 23, 23)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel5))
            .addGroup(layout.createSequentialGroup()
                .addGap(42, 42, 42)
                .addComponent(jButton2)))
            .addGap(136, 136, 136)
                .addComponent(jLabel6)
                .addGap(0, 0, Short.MAX_VALUE)))
        .addContainerGap()
    );
}

pack();
}// </editor-fold>
```

```
private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
}  
  
private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
}  
  
private void jTextField3ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
}  
  
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    conn=DBconnection.ConnectDB();  
  
    String brstreet = jTextField1.getText();  
  
    String bn = jTextField2.getText();  
    int brnumber = Integer.parseInt(bn);  
  
    String city = jTextField3.getText();  
  
    String myQuery = "INSERT INTO branch VALUES (NULL, ?, ?, ?) ";  
  
    try{  
        pst=conn.prepareStatement(myQuery);  
        pst.setString(1,brstreet);  
        pst.setInt(2,brnumber);  
        pst.setString(3,city);  
        pst.executeUpdate();  
        JOptionPane.showMessageDialog(null, "The insert was successfull");  
        jTextField1.setText("");  
        jTextField2.setText("");  
        jTextField3.setText("");  
    }  
}
```

```
        catch (SQLException ex) {
JOptionPane.showMessageDialog(null, ex);
}

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    Login log=new Login();
    log.setVisible(true);
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    BranchMenu bm=new BranchMenu();
    bm.setVisible(true);
}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
    conn=DBconnection.ConnectDB();

    String myQuery= "SELECT * FROM branch WHERE br_code = ? ";
    String myQuery1= "DELETE FROM branch WHERE br_code = ? ";

    String brid = jTextField4.getText();
    int bid = Integer.parseInt(brid);

    try{
        pst=conn.prepareStatement(myQuery);
        pst.setInt(1,bid);
        rs=pst.executeQuery();
    }
}
```

```
if(rs.next()){

    pst=conn.prepareStatement(myQuery1);
    pst.setInt(1,bid);
    pst.executeUpdate();
    JOptionPane.showMessageDialog(null, "The removal of the branch was successfull");
    jTextField4.setText("");
}
else {
    JOptionPane.showMessageDialog(null, "There is no Branch with this code");
}

}

catch (SQLException ex) {
    JOptionPane.showMessageDialog(null, ex);
}

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    conn=DBconnection.ConnectDB();

    String myQuery= "SELECT * FROM branch WHERE br_code = ? ";
    String myQuery1 = "INSERT INTO phones VALUES (?, ?, ?) ";
    String myQuery2 = "INSERT INTO phones VALUES (?, ?, ?, ?) ";

    String brc=jTextField7.getText();
    int bid = Integer.parseInt(brc);

    String phone=jTextField5.getText();
```

```
try{  
    pst=conn.prepareStatement(myQuery);  
    pst.setInt(1,bid);  
    rs=pst.executeQuery();  
    jTextField7.setText("");  
  
    if(rs.next()){  
  
        pst=conn.prepareStatement(myQuery1);  
        pst.setInt(1,bid);  
        pst.setString(2,phone);  
        pst.executeUpdate();  
        JOptionPane.showMessageDialog(null, "A contact phone was registered");  
        jTextField5.setText("");  
  
    }  
  
    else {  
        JOptionPane.showMessageDialog(null, "There is no Branch with this code");  
    }  
  
}  
  
}  
  
}  
  
}  
  
}  
  
}  
  
}  
  
}  
  
}
```

```
private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {  
    conn=DBconnection.ConnectDB();  
    String brc=jTextField6.getText();  
    int bid = Integer.parseInt(brc);  
  
    String bn = jTextField8.getText();  
    int brnumber = Integer.parseInt(bn);  
  
    String myQuery= "SELECT * FROM branch WHERE br_code = ? ";  
    String myQuery1= "UPDATE branch SET br_num = ? WHERE br_code = ? ";  
  
    try{  
        pst=conn.prepareStatement(myQuery);  
        pst.setInt(1,bid);  
        rs=pst.executeQuery();  
        jTextField7.setText("");  
  
        if(rs.next()){  
            pst=conn.prepareStatement(myQuery1);  
            pst.setInt(1,brnumber);  
            pst.setInt(2,bid);  
            pst.executeUpdate();  
            JOptionPane.showMessageDialog(null, "The branch number has changed  
successfully");  
            jTextField6.setText("");  
            jTextField8.setText("");  
  
        }  
        else {  
            JOptionPane.showMessageDialog(null, "There is no Branch with this code");  
        }  
    }  
  
    catch (SQLException ex) {  
        JOptionPane.showMessageDialog(null, ex);  
    }  
}
```

```
/**  
 * @param args the command line arguments  
 */  
  
public static void main(String args[]) {  
    /* Set the Nimbus look and feel */  
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html  
     */  
    try {  
        for (javax.swing.UIManager.LookAndFeelInfo info :  
            javax.swing.UIManager.getInstalledLookAndFeels()) {  
            if ("Nimbus".equals(info.getName())) {  
                javax.swing.UIManager.setLookAndFeel(info.getClassName());  
                break;  
            }  
        }  
    } catch (ClassNotFoundException ex) {  
  
        java.util.logging.Logger.getLogger(Update.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (InstantiationException ex) {  
  
        java.util.logging.Logger.getLogger(Update.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (IllegalAccessException ex) {  
  
        java.util.logging.Logger.getLogger(Update.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
  
        java.util.logging.Logger.getLogger(Update.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    }  
    //</editor-fold>  
  
    /* Create and display the form */  
    java.awt.EventQueue.invokeLater(new Runnable() {  
        public void run() {  
            new Update().setVisible(true);  
        }  
    });  
}
```

```
// Variables declaration - do not modify  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JButton jButton3;  
private javax.swing.JButton jButton4;  
private javax.swing.JButton jButton5;  
private javax.swing.JButton jButton6;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel10;  
private javax.swing.JLabel jLabel11;  
private javax.swing.JLabel jLabel12;  
private javax.swing.JLabel jLabel13;  
private javax.swing.JLabel jLabel14;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JLabel jLabel6;  
private javax.swing.JLabel jLabel7;  
private javax.swing.JLabel jLabel8;  
private javax.swing.JLabel jLabel9;  
private javax.swing.JSeparator jSeparator1;  
private javax.swing.JTextField jTextField1;  
private javax.swing.JTextField jTextField2;  
private javax.swing.JTextField jTextField3;  
private javax.swing.JTextField jTextField4;  
private javax.swing.JTextField jTextField5;  
private javax.swing.JTextField jTextField6;  
private javax.swing.JTextField jTextField7;  
private javax.swing.JTextField jTextField8;  
// End of variables declaration  
}
```

• DBConnection

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
*/
package travel_agency;
import java.sql.*;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;

/**
 *
 * @author admin
 */
public class DBconnection {
    private static final String DB_URL = "jdbc:mysql://localhost:3306/travel_agency";

    public static Connection ConnectDB() {
        try{
            Connection conn = DriverManager.getConnection(DB_URL, "root", "");
//            JOptionPane.showMessageDialog(null, "Connection successful!");
            return conn;
        }
        catch(SQLException ex){
            JOptionPane.showMessageDialog(null,"Connection failed!");
            ex.printStackTrace();
            return null;
        }
    }
}
```

- DriverDetails

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
 */
package travel_agency;
import java.sql.*;
import javax.swing.JOptionPane;
/**
 *
 * @author admin
 */
public class DriverDetails extends javax.swing.JFrame {
    Connection conn=null;
    PreparedStatement pst=null;
    ResultSet rs=null;

    /**
     * Creates new form DriverDetails
     */
    public DriverDetails() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
}
```

```
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jComboBox1 = new javax.swing.JComboBox<>();
    jComboBox2 = new javax.swing.JComboBox<>();
    jTextField2 = new javax.swing.JTextField();
    jLabel5 = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    jButton3 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jButton1.setText("Back");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
    });

    jButton2.setText("Log out");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });
    });

    jLabel1.setText("Worker AT :");

    jLabel2.setText("License :");

    jLabel3.setText("Route :");

    jLabel4.setText("Experience (Months) :");
}
```

```
jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "A", "B", "C", "D" }));  
  
jComboBox2.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Local", "Abroad" }));
```

```
jLabel5.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N  
jLabel5.setText(".Driver Details");
```

```
jLabel6.setText("( Enter details for the worker you just insert )");
```

```
jButton3.setText("OK");  
jButton3.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton3ActionPerformed(evt);  
    }  
});
```

```
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
getContentPane().setLayout(layout);  
layout.setHorizontalGroup(  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(layout.createSequentialGroup()  
            .addContainerGap()  
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
                .addComponent(jButton1)  
                .addGroup(layout.createSequentialGroup()  
                    .addGap(40, 40, 40)  
                    .addComponent(jLabel2)  
                    .addGap(40, 40, 40)  
                    .addComponent(jLabel1)  
                    .addGap(40, 40, 40)  
                    .addComponent(jLabel3)))  
                .addGroup(layout.createSequentialGroup()  
                    .addGap(40, 40, 40)  
                    .addComponent(jButton2))  
                .addGroup(layout.createSequentialGroup()  
                    .addGap(40, 40, 40)  
                    .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE, 134, javax.swing.GroupLayout.PREFERRED_SIZE))  
                .addComponent(jComboBox2, javax.swing.GroupLayout.PREFERRED_SIZE, 134, javax.swing.GroupLayout.PREFERRED_SIZE))  
            .addGap(10, 10, 10))  
        .addGroup(layout.createSequentialGroup()  
            .addGap(80, 80, 80)  
            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 134, javax.swing.GroupLayout.PREFERRED_SIZE))  
    ).addContainerGap());
```

```
.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, 134,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(0, 0, Short.MAX_VALUE))))
.addGroup(layout.createSequentialGroup()
    .addGap(102, 102, 102)
    .addComponent(jLabel6)
    .addContainerGap(71, Short.MAX_VALUE))
.addGroup(layout.createSequentialGroup()
    .addGap(11, 11, 11)
    .addComponent(jLabel4)
    .addGap(0, 0, Short.MAX_VALUE))
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addComponent(jLabel5)
        .addGap(141, 141, 141))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addComponent(jButton3)
        .addGap(158, 158, 158)))
);
layout.setVerticalGroup(
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jButton1)
    .addComponent(jButton2))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(jLabel5)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(jLabel6)
    .addGap(28, 28, 28)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel1)
    .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(25, 25, 25)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel2)
        .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel3)
        .addComponent(jComboBox2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(23, 23, 23)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel4)
        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(jButton3)
    .addContainerGap(115, Short.MAX_VALUE))
);

pack();
}// </editor-fold>
```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    Login log=new Login();
    log.setVisible(true);
}
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    EmployeeUpdate eu=new EmployeeUpdate();
    eu.setVisible(true);
}
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    conn=DBconnection.ConnectDB();  
    String license=jComboBox1.getSelectedItem().toString();  
    String route=jComboBox2.getSelectedItem().toString();  
  
    String AT=jTextField1.getText();  
  
    String e=jTextField2.getText();  
    int experience=Integer.parseInt(e);  
  
    String myQuery = "SELECT * FROM worker WHERE wrk_AT = ? ";  
    String myQuery1 = "INSERT INTO driver VALUES (?,?,?,?,?) ";  
  
    try{  
        pst=conn.prepareStatement(myQuery);  
        pst.setString(1,AT);  
        rs=pst.executeQuery();  
  
        if(rs.next()){  
            pst=conn.prepareStatement(myQuery1);  
            pst.setString(1,AT);  
            pst.setString(2,license);  
            pst.setString(3,route);  
            pst.setFloat(4,experience);  
            pst.executeUpdate();  
            JOptionPane.showMessageDialog(null, "Successful insertion ");  
            jTextField1.setText("");  
            jTextField2.setText("");  
  
            this.dispose();  
            BranchMenu bm=new BranchMenu();  
            bm.setVisible(true);  
        }  
  
        else {  
            JOptionPane.showMessageDialog(null, "There is no worker with that AT");  
        }  
    }  
    catch (SQLException ex) {  
        JOptionPane.showMessageDialog(null, ex);  
    }  
}
```

```
/***
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(DriverDetails.class.getName()).log(java.util.logging.Level.SEVERE
        , null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(DriverDetails.class.getName()).log(java.util.logging.Level.SEVERE
        , null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(DriverDetails.class.getName()).log(java.util.logging.Level.SEVERE
        , null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(DriverDetails.class.getName()).log(java.util.logging.Level.SEVERE
        , null, ex);
    }
    //</editor-fold>
    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new DriverDetails().setVisible(true);
        }
    });
}
}
```

```
// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JComboBox<String> jComboBox1;
private javax.swing.JComboBox<String> jComboBox2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
// End of variables declaration
}
```

- EmployeeUpdate

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
*/
package travel_agency;
import java.sql.*;
import javax.swing.JOptionPane;
/**
 *
 * @author admin
 */
public class EmployeeUpdate extends javax.swing.JFrame {

    Connection conn=null;
    PreparedStatement pst=null;
    ResultSet rs=null;

    /**
     * Creates new form EmployeeUpdate
     */
    public EmployeeUpdate() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
}
```

```
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jTextField2 = new javax.swing.JTextField();
    jTextField3 = new javax.swing.JTextField();
    jButton3 = new javax.swing.JButton();
    jLabel5 = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    jLabel7 = new javax.swing.JLabel();
    jTextField4 = new javax.swing.JTextField();
    jTextField5 = new javax.swing.JTextField();
    jComboBox1 = new javax.swing.JComboBox<>();
    jLabel8 = new javax.swing.JLabel();
    jLabel10 = new javax.swing.JLabel();
    jLabel11 = new javax.swing.JLabel();
    jLabel9 = new javax.swing.JLabel();
    jTextField6 = new javax.swing.JTextField();
    jTextField7 = new javax.swing.JTextField();
    jTextField8 = new javax.swing.JTextField();
    jButton4 = new javax.swing.JButton();
    jLabel12 = new javax.swing.JLabel();
    jComboBox2 = new javax.swing.JComboBox<>();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jButton1.setText("Back");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
});

jButton2.setText("Log out");
```

```
public void actionPerformed(java.awt.event.ActionEvent evt) {
    jButton2ActionPerformed(evt);
}
});

jLabel1.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel1.setText(".Insert Worker");
jLabel2.setText("Worker AT:");
jLabel3.setText("Name:");
jLabel4.setText("Lastname:");
jButton3.setText("Insert");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});

jLabel5.setText("Salary :");

jLabel6.setText("Branch code :");

jLabel7.setText("Status:");

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Driver", "Guide", "Admin", "IT" }));

jLabel8.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel8.setText(".Delete Worker");

jLabel10.setText("Name:");

jLabel11.setText("Lastname:");

jLabel9.setText("Branch code :");

jTextField7.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField7ActionPerformed(evt);
    }
});

});
```

```
jTextField8.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField8ActionPerformed(evt);
    }
});
jButton4.setText("Delete");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});
jLabel12.setText("Status:");
jComboBox2.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Driver",
"Guide", "Admin", "IT" }));
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jButton1)
        .addGap(18, 18, 18)
        .addComponent(jButton2))
    .addGroup(layout.createSequentialGroup()
        .addGap(18, 18, 18)
        .addComponent(jLabel1))
    .addGroup(layout.createSequentialGroup()
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(18, 18, 18)
                .addGroup(layout.createSequentialGroup()
                    .addGap(18, 18, 18)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                        .addGroup(layout.createSequentialGroup()
                            .addGap(18, 18, 18)
                            .addGroup(layout.createSequentialGroup()
                                .addGap(18, 18, 18)
                                .addComponent(jLabel6)
                                .addGap(18, 18, 18)
                                .addComponent(jLabel10)
                                .addGap(18, 18, 18)
                                .addComponent(jLabel11)
                                .addGap(18, 18, 18)
                                .addComponent(jLabel12)))
                            .addGap(18, 18, 18)
                            .addComponent(jLabel13)))
                        .addGroup(layout.createSequentialGroup()
                            .addGap(18, 18, 18)
                            .addComponent(jLabel14)
                            .addGap(18, 18, 18)
                            .addComponent(jLabel15)
                            .addGap(18, 18, 18)
                            .addComponent(jLabel16)
                            .addGap(18, 18, 18)
                            .addComponent(jLabel17)))))))
    .addGroup(layout.createSequentialGroup()
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addGroup(layout.createSequentialGroup()
                .addGap(18, 18, 18)
                .addGroup(layout.createSequentialGroup()
                    .addGap(18, 18, 18)
                    .addComponent(jLabel18)
                    .addGap(18, 18, 18)
                    .addComponent(jLabel19)
                    .addGap(18, 18, 18)
                    .addComponent(jLabel20)
                    .addGap(18, 18, 18)
                    .addComponent(jLabel21)))))))
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(11, 11, 11)
            .addComponent(jLabel8))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
            .addComponent(jTextField6,
javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jTextField7,
javax.swing.GroupLayout.PREFERRED_SIZE, 140,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addComponent(jTextField8,
javax.swing.GroupLayout.PREFERRED_SIZE, 140,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jComboBox2, 0,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
    .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel2)
        .addComponent(jLabel3)
        .addComponent(jLabel4)
        .addComponent(jLabel5)
        .addComponent(jLabel7)
        .addComponent(jLabel9))
    .addGap(30, 30, 30)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
        .addComponent(jTextField3)
        .addComponent(jTextField2)
        .addComponent(jTextField1)
        .addComponent(jTextField4)
        .addComponent(jTextField5)
        .addComponent(jComboBox1, 0, 140, Short.MAX_VALUE))))))

.addGap(0, 170, Short.MAX_VALUE))
```

```
.addGroup(layout.createSequentialGroup()
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(167, 167, 167)
            .addComponent(jButton3))
        .addGroup(layout.createSequentialGroup()
            .addGap(170, 170, 170)
            .addComponent(jButton4)))
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton1)
                .addComponent(jButton2))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(jLabel1)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED))
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel3)
            .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED))
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel4)
        .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel5)
        .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel6)
        .addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel7)
        .addComponent(jTextField6, javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel8)
        .addComponent(jTextField7, javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel9)
        .addComponent(jTextField8, javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
);
```

```
.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel7)
    .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)
    .addComponent(jButton3)
    .addGap(63, 63, 63)
    .addComponent(jLabel8)
    .addGap(5, 5, 5)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel6)
    .addComponent(jTextField6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel10)
    .addComponent(jTextField7, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel11)
    .addComponent(jTextField8, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel12)
    .addComponent(jComboBox2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)
    .addComponent(jButton4)
    .addContainerGap(47, Short.MAX_VALUE))

);

pack();
}// </editor-fold>
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    conn=DBconnection.ConnectDB();
    String status=jComboBox1.getSelectedItem().toString();

    String AT = jTextField1.getText();

    String name = jTextField2.getText();

    String lastname = jTextField3.getText();

    String s = jTextField4.getText();
    float salary = Float.parseFloat(s);

    String bn = jTextField5.getText();
    int brnumber = Integer.parseInt(bn);

    String myQuery = "INSERT INTO worker VALUES (?,?,?,?,?,?)";

    try{
        pst=conn.prepareStatement(myQuery);
        pst.setString(1,AT);
        pst.setString(2,name);
        pst.setString(3,lastname);
        pst.setFloat(4,salary);
        pst.setInt(5,brnumber);
        pst.setString(6, status);
        pst.executeUpdate();
        JOptionPane.showMessageDialog(null, "The insert was successfull");
        jTextField1.setText("");
        jTextField2.setText("");
        jTextField3.setText("");
        jTextField4.setText("");
        jTextField5.setText("");
        if (status.equalsIgnoreCase("Driver")){
            this.dispose();
            DriverDetails dd = new DriverDetails();
            dd.setVisible(true);
        }
        else if(status.equalsIgnoreCase("Guide")){
            this.dispose();
            GuideDetails gd = new GuideDetails();
            gd.setVisible(true);
        }
    }
```

```
else if(status.equalsIgnoreCase("Admin")){
    this.dispose();
    AdminDetails ad = new AdminDetails();
    ad.setVisible(true);
}
else {
    this.dispose();
    ITDetails id = new ITDetails();
    id.setVisible(true);
}
```

```
}
```

```
catch (SQLException ex) {
JOptionPane.showMessageDialog(null, ex);
}
```

```
}
```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    Login log=new Login();
    log.setVisible(true);
}
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    BranchMenu bm=new BranchMenu();
    bm.setVisible(true);
}
```

```
private void jTextField7ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}
```

```
private void jTextField8ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}
```

```
private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {  
    conn=DBconnection.ConnectDB();  
  
    String bc = jTextField6.getText();  
    int code = Integer.parseInt(bc);  
  
    String name = jTextField7.getText();  
  
    String lastname = jTextField8.getText();  
  
    String status=jComboBox2.getSelectedItem().toString();  
  
    String myQuery="SELECT * FROM worker WHERE wrk_name = ? AND  
wrk_lname = ? AND wrk_br_code = ? ";  
    String myQuery1 = "DELETE FROM worker WHERE wrk_name = ? AND  
wrk_lname = ? AND wrk_br_code = ?";  
    String myQuery2 = "DELETE FROM driver WHERE drv_AT IN (SELECT  
wrk_AT FROM worker WHERE wrk_name = ? AND wrk_lname = ? AND  
wrk_br_code = ?)";  
    String myQuery3 = "DELETE FROM guide WHERE gui_AT IN (SELECT  
wrk_AT FROM worker WHERE wrk_name = ? AND wrk_lname = ? AND  
wrk_br_code = ?)";  
    String myQuery4 = "DELETE FROM admin WHERE adm_AT IN (SELECT  
wrk_AT FROM worker WHERE wrk_name = ? AND wrk_lname = ? AND  
wrk_br_code = ?)";  
  
    String myQuery6 = "DELETE FROM languages WHERE lng_gui_AT IN  
(SELECT wrk_AT FROM worker WHERE wrk_name = ? AND wrk_lname = ?  
AND wrk_br_code = ?)";  
    String stored="{call delete_admin(?,?,?)}";
```

```
try{
    pst=conn.prepareStatement(myQuery);
    pst.setString(1,name);
    pst.setString(2,lastname);
    pst.setInt(3,code);
    rs=pst.executeQuery();

    if(rs.next()){

        if (status.equalsIgnoreCase("Driver")){
            pst=conn.prepareStatement(myQuery2);
            pst.setString(1,name);
            pst.setString(2,lastname);
            pst.setInt(3,code);
            pst.executeUpdate();

            JOptionPane.showMessageDialog(null, "The deletion from the driver
table was successfull");

            pst=conn.prepareStatement(myQuery1);
            pst.setString(1,name);
            pst.setString(2,lastname);
            pst.setInt(3,code);
            pst.executeUpdate();

            JOptionPane.showMessageDialog(null, "The deletion from the worker
table was successfull");

            jTextField6.setText("");
            jTextField7.setText("");
            jTextField8.setText("");
        }
    }
}
```

```
else if(status.equalsIgnoreCase("Guide")){
```

```
    pst=conn.prepareStatement(myQuery3);
    pst.setString(1,name);
    pst.setString(2,lastname);
    pst.setInt(3,code);
    pst.executeUpdate();
```

```
    JOptionPane.showMessageDialog(null, "The deletion from the guide
table was successfull");
```

```
    pst=conn.prepareStatement(myQuery1);
    pst.setString(1,name);
    pst.setString(2,lastname);
    pst.setInt(3,code);
    pst.executeUpdate();
```

```
    JOptionPane.showMessageDialog(null, "The deletion from the worker
table was successfull");
```

```
    pst=conn.prepareStatement(myQuery6);
    pst.setString(1,name);
    pst.setString(2,lastname);
    pst.setInt(3,code);
    pst.executeUpdate();
```

```
    JOptionPane.showMessageDialog(null, "The deletion from the language
table was successfull");
```

```
jTextField6.setText("");
jTextField7.setText("");
jTextField8.setText("");
```

```
}
```

```
else if(status.equalsIgnoreCase("Admin")){
    CallableStatement calldel=conn.prepareCall(stored);
    calldel.setString(1,name);
    calldel.setString(2,lastname);
    calldel.registerOutParameter(3, Types.VARCHAR);

    calldel.execute();
    String message = calldel.getString(3);
    JOptionPane.showMessageDialog(null, message);

}

else {

    pst=conn.prepareStatement(myQuery1);
    pst.setString(1,name);
    pst.setString(2,lastname);
    pst.setInt(3,code);
    pst.executeUpdate();

    JOptionPane.showMessageDialog(null, "The deletion from the worker table was
successfull");

    jTextField6.setText("");
    jTextField7.setText("");
    jTextField8.setText("");

}

}
```

```
else{
    JOptionPane.showMessageDialog(null, "There is no worker with these data");
}

}

catch (SQLException ex) {
    JOptionPane.showMessageDialog(null, ex);
}
}

/***
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

        java.util.logging.Logger.getLogger(EmployeeUpdate.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(EmployeeUpdate.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

        java.util.logging.Logger.getLogger(EmployeeUpdate.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalArgumentException ex) {

        java.util.logging.Logger.getLogger(EmployeeUpdate.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
}
```

```
java.util.logging.Logger.getLogger(EmployeeUpdate.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(EmployeeUpdate.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
}

//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new EmployeeUpdate().setVisible(true);
    }
});
```

```
// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JComboBox<String> jComboBox1;
private javax.swing.JComboBox<String> jComboBox2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel12;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
private javax.swing.JTextField jTextField4;
private javax.swing.JTextField jTextField5;
private javax.swing.JTextField jTextField6;
private javax.swing.JTextField jTextField7;
private javax.swing.JTextField jTextField8;
// End of variables declaration
}
```

- GuideDetails

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
*/
package travel_agency;
import java.sql.*;
import javax.swing.JOptionPane;
/**
 *
 */
* @author admin
*/
public class GuideDetails extends javax.swing.JFrame {
    Connection conn=null;
    PreparedStatement pst=null;
    ResultSet rs=null;

    /**
     * Creates new form GuideDetails
     */
    public GuideDetails() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
}
```

```
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTextArea1 = new javax.swing.JTextArea();
    jLabel3 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    jTextField2 = new javax.swing.JTextField();
    jButton3 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jButton1.setText("Back");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
});

jButton2.setText("Log out");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
}
```

```
jLabel1.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel1.setText(".GuideDetails");

jLabel6.setText("( Enter details for the worker you just insert )");

jLabel2.setText("Worker AT :");

jTextArea1.setColumns(20);
jTextArea1.setRows(5);
jScrollPane1.setViewportView(jTextArea1);

jLabel3.setText("CV :");

jLabel5.setText("Language :");

jButton3.setText("OK");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(jButton1)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jButton2))
                .addGroup(layout.createSequentialGroup()
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(layout.createSequentialGroup()
                            .addComponent(jLabel6)
                            .addGap(28, 28, 28))
                        .addGroup(layout.createSequentialGroup()
                            .addGap(28, 28, 28)
                            .addComponent(jScrollPane1)))
                    .addGap(28, 28, 28)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(layout.createSequentialGroup()
                            .addComponent(jLabel3)
                            .addGap(28, 28, 28)
                            .addComponent(jLabel5))
                        .addGroup(layout.createSequentialGroup()
                            .addComponent(jButton3)
                            .addGap(28, 28, 28)
                            .addComponent(jLabel2)))))))
            .addContainerGap())
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton1)
                .addComponent(jButton2))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(jLabel6)
                    .addGap(28, 28, 28)
                    .addComponent(jScrollPane1))
                .addGroup(layout.createSequentialGroup()
                    .addGap(28, 28, 28)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel3)
                        .addComponent(jLabel5))
                    .addGap(28, 28, 28)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jButton3)
                        .addComponent(jLabel2))))))
            .addContainerGap())
);

```

```
.addComponent(jLabel2)
    .addGap(50, 50, 50)
    .addComponent(jTextField1))
.addComponent(layout.createSequentialGroup())

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel3)
    .addComponent(jLabel5))
.addGap(45, 45, 45)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addComponent(jScrollPane1)
    .addComponent(jTextField2))))
.addComponent(layout.createSequentialGroup()
    .addGap(174, 174, 174)
    .addComponent(jLabel1)))
.addContainerGap(111, Short.MAX_VALUE))
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
    .addGap(0, 0, Short.MAX_VALUE)
    .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 72,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(196, 196, 196)))
);

layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jButton1)
            .addComponent(jButton2))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jLabel1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jLabel6)
        .addGap(32, 32, 32)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel2)
            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(35, 35, 35)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE),
            .addComponent(jLabel4))
    )
);
```

```
.addComponent(jLabel3))
    .addGap(20, 20, 20)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel5)
    .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)
    .addComponent(jButton3)
    .addGap(0, 271, Short.MAX_VALUE))
);

pack();
}// </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    EmployeeUpdate eu=new EmployeeUpdate();
    eu.setVisible(true);
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    Login log=new Login();
    log.setVisible(true);
}
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    conn=DBconnection.ConnectDB();  
  
    String AT=jTextField1.getText();  
  
    String cv=jTextArea1.getText();  
  
    String language=jTextField2.getText();  
  
    String myQuery = "SELECT * FROM worker WHERE wrk_AT = ? ";  
    String myQuery1 = "INSERT INTO guide VALUES (?,?) ";  
    String myQuery2 = "INSERT INTO languages VALUES (?,?) ";  
  
    try{  
        pst=conn.prepareStatement(myQuery);  
        pst.setString(1,AT);  
        rs=pst.executeQuery();  
  
        if(rs.next()){  
  
            pst=conn.prepareStatement(myQuery1);  
            pst.setString(1,AT);  
            pst.setString(2,cv);  
            pst.executeUpdate();  
  
            pst=conn.prepareStatement(myQuery2);  
            pst.setString(1,AT);  
            pst.setString(2,language);  
            pst.executeUpdate();  
            JOptionPane.showMessageDialog(null, "Successful insertion");  
            jTextField1.setText("");  
            jTextField2.setText("");  
            jTextArea1.setText("");  
  
            this.dispose();  
            BranchMenu bm=new BranchMenu();  
            bm.setVisible(true);  
        }  
    }
```

```

else {
    JOptionPane.showMessageDialog(null, "There is no worker with that AT");
}
}

catch (SQLException ex) {
    JOptionPane.showMessageDialog(null, ex);
}
}

/***
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(GuideDetails.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

```

```
java.util.logging.Logger.getLogger(GuideDetails.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(GuideDetails.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(GuideDetails.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
}

//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new GuideDetails().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTextArea jTextArea1;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
// End of variables declaration
}
```

- IT_Details

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template
*/
package travel_agency;
import java.sql.*;
import java.text.SimpleDateFormat;
import java.util.Locale;
import javax.swing.table.DefaultTableModel;
import java.util.Date;
import javax.swing.JOptionPane;
/**
 *
 * @author admin
 */
public class ITDetails extends javax.swing.JFrame {
    Connection conn=null;
    PreparedStatement pst=null;
    ResultSet rs=null;
    private String txtDate;
    /**
     * Creates new form ITDetails
     */
    public ITDetails() {
        initComponents();
        date1();
    }
    public void date1(){
        String txtDate=new SimpleDateFormat("yyyy/MM/dd", Locale.FRANCE).format(new Date());
        date.setText(txtDate);
        date.setEditable(false);}
```

```
}
```

```
/**  
 * This method is called from within the constructor to initialize the form.  
 * WARNING: Do NOT modify this code. The content of this method is always  
 * regenerated by the Form Editor.  
 */  
  
@SuppressWarnings("unchecked")  
// <editor-fold defaultstate="collapsed" desc="Generated Code">  
private void initComponents() {  
  
    jButton1 = new javax.swing.JButton();  
    jButton2 = new javax.swing.JButton();  
    jLabel1 = new javax.swing.JLabel();  
    jLabel6 = new javax.swing.JLabel();  
    jLabel2 = new javax.swing.JLabel();  
    jLabel3 = new javax.swing.JLabel();  
    jLabel4 = new javax.swing.JLabel();  
    date = new javax.swing.JTextField();  
    jTextField1 = new javax.swing.JTextField();  
    jTextField2 = new javax.swing.JTextField();  
    jButton3 = new javax.swing.JButton();  
  
    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);  
  
    jButton1.setText("Back");  
    jButton1.addActionListener(new java.awt.event.ActionListener() {  
        public void actionPerformed(java.awt.event.ActionEvent evt) {  
            jButton1ActionPerformed(evt);  
        }  
    });
```

```
jButton2.setText("Log out");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

jLabel1.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel1.setText(".IT Details");

jLabel6.setText("( Enter details for the worker you just insert )");

jLabel2.setText("Worker AT :");

jLabel3.setText("Password :");

jLabel4.setText("Start Date :");

jButton3.setText("OK");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jButton1)
        .addGap(155, 155, 155)
        .addComponent(jLabel1)
        .addGap(90, 90, 90)
        .addComponent(jLabel6))
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(155, 155, 155)
            .addComponent(jLabel1)
            .addGap(90, 90, 90)
            .addComponent(jLabel6)))
);
```

```
.addGap(25, 25, 25)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel4)
        .addComponent(jLabel2)
        .addComponent(jLabel3))
    .addGap(34, 34, 34)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
        .addComponent(date)
        .addComponent(jTextField1)
        .addComponent(jTextField2, javax.swing.GroupLayout.DEFAULT_SIZE, 136,
Short.MAX_VALUE)))
    .addGroup(layout.createSequentialGroup()
        .addGap(147, 147, 147)
        .addComponent(jButton3)))
.addContainerGap(63, Short.MAX_VALUE))
);

layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jButton1)
            .addComponent(jButton2))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jLabel1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jLabel6)
        .addGap(29, 29, 29)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel2)
            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addGap(25, 25, 25)
);
```

```
.addGap(20, 20, 20)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel3)
        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel4)
        .addComponent(date, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)
    .addComponent(jButton3)
    .addGap(0, 156, Short.MAX_VALUE))
);

pack();
}// </editor-fold>
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    EmployeeUpdate eu=new EmployeeUpdate();
    eu.setVisible(true);
}
```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    Login log=new Login();
    log.setVisible(true);
}
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    conn=DBconnection.ConnectDB();  
  
    String AT=jTextField1.getText();  
  
    String password=jTextField2.getText();  
  
    String myQuery="SELECT * FROM worker WHERE wrk_AT = ? ";  
    String myQuery1="INSERT INTO IT VALUES (?,?,?)";  
  
    try{  
        pst=conn.prepareStatement(myQuery);  
        pst.setString(1,AT);  
        rs=pst.executeQuery();  
  
        if(rs.next()){  
            pst=conn.prepareStatement(myQuery1);  
            pst.setString(1,AT);  
            pst.setString(2, password);  
            pst.setString(3,txtDate);  
            rs=pst.executeQuery();  
  
            JOptionPane.showMessageDialog(null, "Successful insertion");  
            jTextField1.setText("");  
            jTextField2.setText("");  
  
            this.dispose();  
            BranchMenu bm=new BranchMenu();  
            bm.setVisible(true);  
        }  
    }  
}
```

```

else {
    JOptionPane.showMessageDialog(null, "There is no worker with that AT");
}
}

    catch (SQLException ex) {
        JOptionPane.showMessageDialog(null, ex);
    }
}

/***
 * @param args the command line arguments
 */

public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

        java.util.logging.Logger.getLogger(ITDetails.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);
    } catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(ITDetails.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);
    } catch (IllegalAccessException ex) {

        java.util.logging.Logger.getLogger(ITDetails.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
}

```

```
java.util.logging.Logger.getLogger(ITDetails.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
}

//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new ITDetails().setVisible(true);
    }
});

}

// Variables declaration - do not modify
private javax.swing.JTextField date;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel6;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
// End of variables declaration
}
```

- LogTable

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
*/
package travel_agency;
import java.sql.*;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author admin
 */
public class LogTable extends javax.swing.JFrame {

    Connection conn=null;
    PreparedStatement pst=null;
    ResultSet rs=null;

    /**
     * Creates new form LogTable
     */
    public LogTable() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
}
```

```
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    jButton1 = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jButton2 = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel1.setText("Click to see the log table :");

    jButton1.setText("Show");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
});

jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Action", "Date", "IT_Lastaname", "Table"
    }
));
jScrollPane1.setViewportView(jTable1);

jButton2.setText("Log out");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
}

});
```

```
jButton3.setText("Back");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
    layout.createSequentialGroup()
        .addComponent(jButton3)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jButton2))
    .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(32, 32, 32)
                .addComponent(jScrollPane1,
                    javax.swing.GroupLayout.PREFERRED_SIZE, 494,
                    javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(layout.createSequentialGroup()
                .addGap(124, 124, 124)
                .addComponent(jLabel1))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jButton1,
            javax.swing.GroupLayout.PREFERRED_SIZE, 94,
            javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap(61, Short.MAX_VALUE))
);
```

```
layout.setVerticalGroup()
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton2)
                .addComponent(jButton3))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 115,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(31, 31, 31)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton1)
                .addComponent(jLabel1)))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, Short.MAX_VALUE)
            .addContainerGap(132, Short.MAX_VALUE))
    );
}

pack();
}// </editor-fold>
```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    Login log=new Login();
    log.setVisible(true);
}
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    DefaultTableModel mytbl = (DefaultTableModel) jTable1.getModel();  
    mytbl.setRowCount(0);  
    conn=DBconnection.ConnectDB();  
    String myQuery= "Select log_action,action_date,action_lastname,action_table from log";  
  
    try{  
        pst=conn.prepareStatement(myQuery);  
        rs=pst.executeQuery();  
  
        if(rs.next()){  
            while(rs.next()){  
                String action=rs.getString("log_action");  
                String date=rs.getString("action_date");  
                String lastname=rs.getString("action_lastname");  
                String table=rs.getString("action_table");  
  
                String table1[]={action,date,lastname};  
                mytbl.addRow(table1);  
            }  
        }  
        else{  
            JOptionPane.showMessageDialog(null, "Log table is empty");  
        }  
    }  
    catch(SQLException ex){  
        JOptionPane.showMessageDialog(null,ex);  
    }  
}
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    this.dispose();  
    MENU_IT mn=new MENU_IT();  
    mn.setVisible(true);  
}  
  
/**  
 * @param args the command line arguments  
 */  
public static void main(String args[]) {  
    /* Set the Nimbus look and feel */  
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code  
(optional) ">  
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default  
look and feel.  
     * For details see  
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html  
    */  
    try {  
        for (javax.swing.UIManager.LookAndFeelInfo info :  
javax.swing.UIManager.getInstalledLookAndFeels()) {  
            if ("Nimbus".equals(info.getName())) {  
                javax.swing.UIManager.setLookAndFeel(info.getClassName());  
                break;  
            }  
        }  
    } catch (ClassNotFoundException ex) {  
  
java.util.logging.Logger.getLogger(LogTable.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (InstantiationException ex) {  
  
java.util.logging.Logger.getLogger(LogTable.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (IllegalAccessException ex) {  
  
java.util.logging.Logger.getLogger(LogTable.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
  
java.util.logging.Logger.getLogger(LogTable.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    }  
}
```

//</editor-fold>

```
/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new LogTable().setVisible(true);
    }
});
```

```
// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JLabel jLabel1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
// End of variables declaration
}
```

- Login

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
*/
package travel_agency;
import java.sql.*;
import javax.swing.JOptionPane;

/**
 *
 * @author admin
 */
public class Login extends javax.swing.JFrame {

    Connection conn = null;
    PreparedStatement pst = null;
    ResultSet rs = null;
    /**
     * Creates new form Login
     */
    public Login() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
}
```

```
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jPasswordField1 = new javax.swing.JPasswordField();
    jButton1 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel1.setText("Username");

    jLabel2.setText("Password");

    jButton1.setText("Log in");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(46, 46, 46)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel1)
            .addComponent(jLabel2))
        .addGap(39, 39, 39)
    )
);
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false
    .addComponent(jTextField1, javax.swing.GroupLayout.DEFAULT_SIZE, 176,
Short.MAX_VALUE)
    .addComponent(jPasswordField1))
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addContainerGap(194, Short.MAX_VALUE)
    .addComponent(jButton1)
    .addGap(134, 134, 134))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(67, 67, 67)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel1)
    .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(21, 21, 21)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel2)
    .addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)
    .addComponent(jButton1)
    .addContainerGap(127, Short.MAX_VALUE))
);
pack();
}// </editor-fold>
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    conn=DBconnection.ConnectDB();  
    String myQuery= "Select wrk_lname,IT_password from worker INNER JOIN IT on  
    IT_AT=wrk_AT WHERE wrk_lname LIKE ? AND IT_password LIKE ?";  
    try{  
        pst=conn.prepareStatement(myQuery);  
        pst.setString(1, jTextField1.getText());  
        pst.setString(2, jPasswordField1.getText());  
        rs=pst.executeQuery();  
  
        if(rs.next()){  
            String str= jTextField1.getText();  
            pst=conn.prepareStatement("Select wrk_lname,wrk_AT FROM worker where  
            wrk_lname LIKE ?");  
            pst.setString(1, str);  
            rs=pst.executeQuery();  
  
            JOptionPane.showMessageDialog(null, "Welcome IT");  
            this.toBack();  
            MENU_IT me= new MENU_IT();  
            me.setVisible(true);  
            me.toFront();  
            this.dispose();  
        }  
        else {  
            JOptionPane.showMessageDialog(null, "Wrong Credentials!");  
        }  
    }  
    catch(SQLException ex){  
        JOptionPane.showMessageDialog(null,"Connection failed!");  
        ex.printStackTrace();  
    }  
}
```

```
/**  
 * @param args the command line arguments  
 */  
  
public static void main(String args[]) {  
    /* Set the Nimbus look and feel */  
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html  
     */  
    try {  
        for (javax.swing.UIManager.LookAndFeelInfo info :  
            javax.swing.UIManager.getInstalledLookAndFeels()) {  
            if ("Nimbus".equals(info.getName())) {  
                javax.swing.UIManager.setLookAndFeel(info.getClassName());  
                break;  
            }  
        }  
    } catch (ClassNotFoundException ex) {  
  
        java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE  
E, null, ex);  
    } catch (InstantiationException ex) {  
  
        java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE  
E, null, ex);  
    } catch (IllegalAccessException ex) {  
  
        java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE  
E, null, ex);  
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
  
        java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE  
E, null, ex);  
    }  
    //</editor-fold>  
  
    /* Create and display the form */  
    java.awt.EventQueue.invokeLater(new Runnable() {  
        public void run() {  
            new Login().setVisible(true);  
        }  
    });  
}
```

```
// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JPasswordField jPasswordField1;
private javax.swing.JTextField jTextField1;
// End of variables declaration
}
```

- MENU_IT

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
*/
package travel_agency;
import java.sql.*;
import javax.swing.*;

/**
 *
 * @author admin
 */
public class MENU_IT extends javax.swing.JFrame {

    private String currentUser;
    /**
     * Creates new form MENU_IT
     */
    public MENU_IT() {
        initComponents();
    }

    public MENU_IT(String currentUser)
    {
        initComponents();
        this.currentUser = currentUser;
    }

    public String getUser() {
        return this.currentUser;
    }
    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
}
```

```
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();
    jButton4 = new javax.swing.JButton();
    jButton5 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jButton1.setText("Log out");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
});

jButton2.setText("Branch Info");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
});

jButton3.setText("Log Table");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
});

jButton4.setText("Trip Info");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});
});
```

```
jButton5.setText("Reservation Info");
jButton5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton5ActionPerformed(evt);
    }
});
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
        .addGap(0, 0, Short.MAX_VALUE)
        .addComponent(jButton1))
    .addGroup(layout.createSequentialGroup()
        .addGap(90, 90, 90)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addComponent(jButton5)
            .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 115,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 115,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 115,
                javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(100, Short.MAX_VALUE)))
);
layout.setVerticalGroup(
    layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jButton1)
            .addGroup(layout.createSequentialGroup()
                .addGap(23, 23, 23)
                .addComponent(jButton2)
                .addGap(18, 18, 18)
                .addComponent(jButton4)
                .addGap(18, 18, 18)
                .addComponent(jButton5)
                .addGap(71, Short.MAX_VALUE)))
            .addComponent(jButton3)
            .addComponent(jButton5)
        );
    pack();
} // </editor-fold>
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    this.dispose();  
    Login log=new Login();  
    log.setVisible(true);  
}  
  
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
    String str = getUser();  
    this.dispose();  
    BranchMenu brm =new BranchMenu();  
    brm.setVisible(true);  
  
}  
  
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    this.dispose();  
    LogTable lt=new LogTable();  
    lt.setVisible(true);  
}  
  
private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {  
    String us = getUser();  
    this.dispose();  
    TripMenu trpm =new TripMenu(us);  
    trpm.setVisible(true);  
  
}  
  
private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {  
    this.dispose();  
    ReservationINFO ri=new ReservationINFO();  
    ri.setVisible(true);  
}
```

```
/***
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(MENU_IT.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(MENU_IT.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(MENU_IT.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(MENU_IT.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new MENU_IT().setVisible(true);
        }
    });
}
}
```

```
// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton5;
// End of variables declaration
```

```
}
```

- MakeReservation

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
*/
package travel_agency;
import java.sql.*;
import javax.swing.JOptionPane;
/***
 *
 * @author admin
 */
public class MakeReservation extends javax.swing.JFrame {

    Connection conn=null;
    PreparedStatement pst=null;
    ResultSet rs=null;
    private String currentUser;

    /**
     * Creates new form MakeReservation
     */
    public MakeReservation() {
        initComponents();
    }
    public MakeReservation(String currentUser) {
        initComponents();
        this.currentUser = currentUser;
    }

    public String getUser() {
        return this.currentUser;
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
}
```

```
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jTextField2 = new javax.swing.JTextField();
    jTextField3 = new javax.swing.JTextField();
    jTextField4 = new javax.swing.JTextField();
    jComboBox1 = new javax.swing.JComboBox<>();
    jButton3 = new javax.swing.JButton();
    jLabel7 = new javax.swing.JLabel();
    jLabel8 = new javax.swing.JLabel();
    jLabel9 = new javax.swing.JLabel();
    jTextField5 = new javax.swing.JTextField();
    jLabel10 = new javax.swing.JLabel();
    jLabel11 = new javax.swing.JLabel();
    jTextField6 = new javax.swing.JTextField();
    jTextField7 = new javax.swing.JTextField();
    jButton4 = new javax.swing.JButton();
    jLabel12 = new javax.swing.JLabel();
    jTextField8 = new javax.swing.JTextField();
    jLabel13 = new javax.swing.JLabel();
    jTextField9 = new javax.swing.JTextField();
    jButton5 = new javax.swing.JButton();
    jLabel14 = new javax.swing.JLabel();
    jTextField10 = new javax.swing.JTextField();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jButton1.setText("Back");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
});
```

```
jButton2.setText("Log out");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

jLabel1.setText("Trip ID :");

jLabel2.setText("Seat num :");

jLabel3.setText("*Name :");

jLabel4.setText("Lastname:");

jLabel5.setText("isAdult :");

jLabel6.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel6.setText(".Insert reservation");

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
"ADULT", "MINOR" }));

jButton3.setText("OK");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
```

```
jLabel7.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel7.setText(".Delete reservation");

jLabel8.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel8.setText(".Update reservation");

jLabel9.setText("Trip ID :");

jLabel10.setText("Name :");

jLabel11.setText("Lastname:");

jButton4.setText("OK");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});
jLabel12.setText("Trip ID :");

jLabel13.setText("New Name :");

jButton5.setText("OK");
jButton5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton5ActionPerformed(evt);
    }
});
jLabel14.setText("Old Name :");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jButton1)
    )
);
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(jButton2))
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
.addGap(0, 0, Short.MAX_VALUE)
.addComponent(jButton5)
.addGap(154, 154, 154))
.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
.addGroup(layout.createSequentialGroup()
.addContainerGap()
.addComponent(jLabel6))
.addGroup(layout.createSequentialGroup()
.addContainerGap()
.addComponent(jLabel8))
.addGroup(layout.createSequentialGroup()
.addContainerGap()
.addComponent(jLabel7)
.addGroup(layout.createSequentialGroup()
.addGap(6, 6, 6)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jLabel10)
.addComponent(jLabel9))
.addGroup(layout.createSequentialGroup()
.addGap(2, 2, 2)
.addComponent(jLabel11)))
.addGap(34, 34, 34)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
.addComponent(jTextField5)
.addComponent(jTextField6)
.addComponent(jTextField7))))
.addGroup(layout.createSequentialGroup()
    .addContainerGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel12)
    .addComponent(jLabel13))
    .addGap(54, 54, 54)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jTextField8, javax.swing.GroupLayout.DEFAULT_SIZE,
177, Short.MAX_VALUE)
    .addComponent(jTextField9))
.addGroup(layout.createSequentialGroup()
    .addContainerGap()
    .addComponent(jLabel14)
    .addGap(59, 59, 59)
    .addComponent(jTextField10)))
.addGroup(layout.createSequentialGroup()
    .addGap(162, 162, 162)
    .addComponent(jButton4))
.addGroup(layout.createSequentialGroup()
    .addGap(125, 125, 125)
    .addComponent(jButton3))
.addGroup(layout.createSequentialGroup()
    .addGap(12, 12, 12)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel1)
    .addComponent(jLabel2)
    .addComponent(jLabel3)
    .addComponent(jLabel4)
    .addComponent(jLabel5))
    .addGap(38, 38, 38)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
```

```
.addComponent(jTextField2)
.addComponent(jTextField4)
.addComponent(jTextField1)
.addComponent(jComboBox1,
javax.swing.GroupLayout.PREFERRED_SIZE, 113,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
113, javax.swing.GroupLayout.PREFERRED_SIZE)))
.addContainerGap(101, Short.MAX_VALUE))
);
layout.setVerticalGroup(
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(jButton1)
.addComponent(jButton2)
.addGap(31, 31, 31)
.addComponent(jLabel6)
.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(jLabel1)
.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(21, 21, 21)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(jLabel2)
.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(19, 19, 19)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel3)
    .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel4)
        .addContainerGap(29, 29, 29))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel5)
    .addComponent(jComboBox1,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(jButton3)
    .addGap(69, 69, 69)
    .addComponent(jLabel7)
    .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel9)
    .addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(22, 22, 22)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel10)
        .addGroupGap(28, 28, 28))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel11)
    .addComponent(jTextField7, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addComponent(jTextField6, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroupGap(18, 18, 18)
    .addComponent(jButton4)
    .addGroupGap(44, 44, 44)
    .addComponent(jLabel8)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel12)
    .addComponent(jTextField8, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroupGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel13)
    .addComponent(jTextField9, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroupGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel14)
    .addComponent(jTextField10, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE))
    .addGroupGap(18, 18, 18)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(jButton5)
    .addComponentContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
    Short.MAX_VALUE))

);

pack();
} // </editor-fold>
```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
    this.dispose();  
    Login log=new Login();  
    log.setVisible(true);  
}  
  
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    this.dispose();  
    TripUpdate tu=new TripUpdate();  
    tu.setVisible(true);  
}  
  
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    conn=DBconnection.ConnectDB();  
  
    String id = jTextField1.getText();  
    int trid = Integer.parseInt(id);  
  
    String s = jTextField2.getText();  
    int seatnum = Integer.parseInt(s);  
  
    String name = jTextField3.getText();  
  
    String lastname = jTextField4.getText();  
  
    String isadult=jComboBox1.getSelectedItem().toString();  
  
    String myQuery = "SELECT * FROM trip WHERE tr_id= ?";  
    String myQuery1 = "INSERT INTO reservation VALUES (?,?,?,?,?,?)";  
  
    String userlname = getUser();  
    String mq="INSERT INTO user VALUES(?) ";
```

```
try{  
  
    pst = conn.prepareStatement(mq);  
    pst.setString(1, username);  
    int y = pst.executeUpdate();  
  
    pst=conn.prepareStatement(myQuery);  
    pst.setInt(1,trid);  
    rs=pst.executeQuery();  
  
    if(rs.next()){  
        pst=conn.prepareStatement(myQuery1);  
        pst.setInt(1,trid);  
        pst.setInt(2,seatnum);  
        pst.setString(3,name);  
        pst.setString(4,lastname);  
        pst.setString(5,isadult);  
        pst.executeUpdate();  
  
        JOptionPane.showMessageDialog(null, "The reservation has been registered");  
        jTextField1.setText("");  
        jTextField2.setText("");  
        jTextField3.setText("");  
        jTextField4.setText("");  
  
    }  
  
    else{  
        JOptionPane.showMessageDialog(null, "There is no trip with that ID");  
    }  
}  
  
catch (SQLException ex) {  
    JOptionPane.showMessageDialog(null, ex);  
}  
}
```

```
private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {  
    conn=DBconnection.ConnectDB();  
  
    String id = jTextField5.getText();  
    int trid = Integer.parseInt(id);  
  
    String name = jTextField6.getText();  
  
    String lastname = jTextField7.getText();  
  
    String myQuery = "SELECT * FROM trip WHERE tr_id= ?";  
    String myQuery1 = "DELETE FROM reservation WHERE res_tr_id = ? AND res_name = ? AND res_lastname = ?";  
  
    String userlname = getUser();  
    String mq="INSERT INTO user VALUES(?) ";  
    try{  
        pst = conn.prepareStatement(mq);  
        pst.setString(1, userlname);  
        int y = pst.executeUpdate();  
  
        pst=conn.prepareStatement(myQuery);  
        pst.setInt(1,trid);  
        rs=pst.executeQuery();  
  
        if(rs.next()){  
            pst=conn.prepareStatement(myQuery1);  
            pst.setInt(1, trid);  
            pst.setString(2,name);  
            pst.setString(3,lastname);  
            pst.executeUpdate();  
  
            JOptionPane.showMessageDialog(null, "The reservation has been deleted");  
            jTextField5.setText("");  
            jTextField6.setText("");  
            jTextField7.setText("");  
        }  
    }  
}
```

```
else{
    JOptionPane.showMessageDialog(null, "There is no trip with that ID");
}
}

catch (SQLException ex) {
JOptionPane.showMessageDialog(null, ex);
}

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
conn=DBconnection.ConnectDB();

String id = jTextField8.getText();
int trid = Integer.parseInt(id);

String newname = jTextField9.getText();

String oldname = jTextField10.getText();

String myQuery = "SELECT * FROM reservation WHERE res_tr_id= ? AND res_name =
? ";
String myQuery1 = "UPDATE reservation SET res_name = ? WHERE res_tr_id = ? AND
res_lastname = ? ";

String userlname = getUser();
String mq="INSERT INTO user VALUES(NULL,?) ";
```

```
try{  
  
    pst = conn.prepareStatement(mq);  
    pst.setString(1, userlname);  
    int y = pst.executeUpdate();  
  
  
    pst=conn.prepareStatement(myQuery);  
    pst.setInt(1,trid);  
    pst.setString(2, oldname);  
    rs=pst.executeQuery();  
  
    if(rs.next()){  
        pst=conn.prepareStatement(myQuery1);  
        pst.setString(1, newname);  
        pst.setInt(2,trid);  
        pst.setString(3,oldname);  
        pst.executeUpdate();  
  
        JOptionPane.showMessageDialog(null, "The reservation has been updated");  
        jTextField8.setText("");  
        jTextField9.setText("");  
        jTextField10.setText("");  
  
    }  
  
    else{  
        JOptionPane.showMessageDialog(null, "No reservation found");  
    }  
}  
  
catch (SQLException ex) {  
    JOptionPane.showMessageDialog(null, ex);  
}  
}
```

```
/**  
 * @param args the command line arguments  
 */  
  
public static void main(String args[]) {  
    /* Set the Nimbus look and feel */  
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html  
     */  
    try {  
        for (javax.swing.UIManager.LookAndFeelInfo info :  
            javax.swing.UIManager.getInstalledLookAndFeels()) {  
            if ("Nimbus".equals(info.getName())) {  
                javax.swing.UIManager.setLookAndFeel(info.getClassName());  
                break;  
            }  
        }  
    } catch (ClassNotFoundException ex) {  
  
        java.util.logging.Logger.getLogger(MakeReservation.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (InstantiationException ex) {  
  
        java.util.logging.Logger.getLogger(MakeReservation.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (IllegalAccessException ex) {  
  
        java.util.logging.Logger.getLogger(MakeReservation.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
  
        java.util.logging.Logger.getLogger(MakeReservation.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    }  
    //</editor-fold>  
  
    /* Create and display the form */  
    java.awt.EventQueue.invokeLater(new Runnable() {  
        public void run() {  
            new MakeReservation().setVisible(true);  
        }  
    });  
}
```

```
// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton5;
private javax.swing.JComboBox<String> jComboBox1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel12;
private javax.swing.JLabel jLabel13;
private javax.swing.JLabel jLabel14;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField10;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
private javax.swing.JTextField jTextField4;
private javax.swing.JTextField jTextField5;
private javax.swing.JTextField jTextField6;
private javax.swing.JTextField jTextField7;
private javax.swing.JTextField jTextField8;
private javax.swing.JTextField jTextField9;
// End of variables declaration
}
```

- ReservationINFO

```
*  
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this  
 license  
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this  
 template  
 */  
package travel_agency;  
import java.sql.*;  
import javax.swing.JOptionPane;  
import javax.swing.table.DefaultTableModel;  
  
/**  
 *  
 * @author admin  
 */  
public class ReservationINFO extends javax.swing.JFrame {  
    Connection conn=null;  
    PreparedStatement pst=null;  
    ResultSet rs=null;  
  
    /**  
     * Creates new form ReservationINFO  
     */  
    public ReservationINFO() {  
        initComponents();  
    }  
  
    /**  
     * This method is called from within the constructor to initialize the form.  
     * WARNING: Do NOT modify this code. The content of this method is always  
     * regenerated by the Form Editor.  
     */
```

```
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jButton1 = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    jButton2 = new javax.swing.JButton();
    jTextField1 = new javax.swing.JTextField();
    jButton3 = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jButton1.setText("Log out");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
    });

    jLabel1.setText("Enter Lastname to see reservations :");

    jButton2.setText("Back");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });
    });

    jButton3.setText("Show");
    jButton3.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton3ActionPerformed(evt);
        }
    });
    });

    jTable1.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {
            {null, null, null, null},
            {null, null, null, null},
            {null, null, null, null},
            {null, null, null, null}
        }
    ));
}


```

```
},  
    new String [] {  
        "Name", "Lastname", "Total", "Offer ID"  
    }  
));  
jScrollPane1.setViewportView(jTable1);  
  
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
getContentPane().setLayout(layout);  
layout.setHorizontalGroup(  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()  
        .addComponent(jButton2)  
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,  
            javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
        .addComponent(jButton1))  
    .addGroup(layout.createSequentialGroup()  
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
            .addGroup(layout.createSequentialGroup()  
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 639,  
                    javax.swing.GroupLayout.PREFERRED_SIZE))  
        .addGroup(layout.createSequentialGroup()  
            .addGroup(layout.createSequentialGroup()  
                .addGroup(layout.createSequentialGroup()  
                    .addComponent(jLabel1)  
                    .addGroup(layout.createSequentialGroup()  
                        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 201,  
                            javax.swing.GroupLayout.PREFERRED_SIZE)  
                        .addGroup(layout.createSequentialGroup()  
                            .addGap(19, 19, 19)  
                            .addComponent(jButton3)))  
                    .addGroup(layout.createSequentialGroup()  
                        .addGap(23, Short.MAX_VALUE))  
                .addContainerGap()))  
            .addContainerGap()))  
    .addContainerGap());  
layout.setVerticalGroup(  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
        .addComponent(jButton1)  
        .addComponent(jButton2)  
        .addComponent(jButton3)));  
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
setBounds(100, 100, 450, 350);  
setVisible(true);  
}
```

```
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(layout.createSequentialGroup()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(jButton1)
.addComponent(jButton2))
.addGap(37, 37, 37)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(jLabel1)
.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jButton3))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 129,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(0, 132, Short.MAX_VALUE)))
);
```

```
pack();
```

```
}// </editor-fold>
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
DefaultTableModel mytbl = (DefaultTableModel) jTable1.getModel();
mytbl.setRowCount(0);
conn=DBconnection.ConnectDB();
String myQuery= "Select res_lastname from reservation_offers WHERE res_lastname
LIKE ?";
String stored="{call find_name_reservations(?)}";
```

```
try{
```

```
    pst=conn.prepareStatement(myQuery);
    pst.setString(1, jTextField1.getText());
    rs=pst.executeQuery();
```

```
    if(rs.next()){
        CallableStatement callFindNames=conn.prepareCall(stored);
        String find_lastname=jTextField1.getText();
        callFindNames.setString(1,find_lastname);
        callFindNames.execute();
        ResultSet rs1 = callFindNames.getResultSet();
```

```
while(rs1.next()){

    String res_name=rs1.getString("res_name");
    String res_lastname=rs1.getString("res_lastname");
    int tr = rs1.getInt("COUNT(res_name)");
    String total=String.valueOf(tr);
    int ofid = rs1.getInt("offer_id");
    String offer_id=String.valueOf(ofid);

    String table1[]={res_name,res_lastname,total,offer_id};
    mytbl.addRow(table1);

}

}

else{
    JOptionPane.showMessageDialog(null, "There are no reservations with that lastname");
}

}

catch(SQLException ex){
    JOptionPane.showMessageDialog(null,ex);
}

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    Login log=new Login();
    log.setVisible(true);
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    MENU_IT mn=new MENU_IT();
    mn.setVisible(true);
}
```

```
/**  
 * @param args the command line arguments  
 */  
  
public static void main(String args[]) {  
    /* Set the Nimbus look and feel */  
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html  
     */  
    try {  
        for (javax.swing.UIManager.LookAndFeelInfo info :  
            javax.swing.UIManager.getInstalledLookAndFeels()) {  
            if ("Nimbus".equals(info.getName())) {  
                javax.swing.UIManager.setLookAndFeel(info.getClassName());  
                break;  
            }  
        }  
    } catch (ClassNotFoundException ex) {  
  
        java.util.logging.Logger.getLogger(ReservationINFO.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (InstantiationException ex) {  
  
        java.util.logging.Logger.getLogger(ReservationINFO.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (IllegalAccessException ex) {  
  
        java.util.logging.Logger.getLogger(ReservationINFO.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
  
        java.util.logging.Logger.getLogger(ReservationINFO.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    }  
    //</editor-fold>  
  
    /* Create and display the form */  
    java.awt.EventQueue.invokeLater(new Runnable() {  
        public void run() {  
            new ReservationINFO().setVisible(true);  
        }  
    });  
}
```

```
// Variables declaration - do not modify  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JButton jButton3;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTable jTable1;  
private javax.swing.JTextField jTextField1;  
// End of variables declaration  
}
```

- Travel_agency

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Main.java to edit this template
*/
package travel_agency;
import java.sql.*;
import javax.swing.JOptionPane;

/**
 *
 * @author admin
 */
public class Travel_agency {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        DBconnection.ConnectDB();
    }
}
```

- Trip_Menu

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
*/
package travel_agency;
import java.sql.*;
import java.text.SimpleDateFormat;
import java.util.Locale;
import javax.swing.table.DefaultTableModel;
import java.util.Date;
import javax.swing.JOptionPane;

/**
 *
 * @author admin
 */
public class TripMenu extends javax.swing.JFrame {
    Connection conn=null;
    PreparedStatement pst=null;
    ResultSet rs=null;
    private String currentUser;

    /**
     * Creates new form TripMenu
     */
    public TripMenu() {
        initComponents();
        date1();
        date2();
    }

    public TripMenu(String currentUser) {
        initComponents();
        this.currentUser = currentUser;
    }
}
```

```
public String getUser() {
    return this.currentUser;
}

public void date1(){
    String txtDate=new SimpleDateFormat("yyyy/MM/dd", Locale.FRANCE).format(new Date());
    date.setText(txtDate);
}

public void date2(){
    String txtDate=new SimpleDateFormat("yyyy/MM/dd", Locale.FRANCE).format(new Date());
    date1.setText(txtDate);
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
```

```
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jTextField1 = new javax.swing.JTextField();
    date = new javax.swing.JTextField();
    date1 = new javax.swing.JTextField();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();
    jButton4 = new javax.swing.JButton();
    jButton5 = new javax.swing.JButton();
    jButton6 = new javax.swing.JButton();
    jButton7 = new javax.swing.JButton();
    jLabel4 = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jTextField1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jTextField1ActionPerformed(evt);
        }
    });

    date.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            dateActionPerformed(evt);
        }
    });

    jLabel4.setText("jLabel4");

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel4)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 100, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(date, javax.swing.GroupLayout.PREFERRED_SIZE, 100, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 100, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jTable1, javax.swing.GroupLayout.PREFERRED_SIZE, 100, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(jButton1)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jButton2)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jButton3)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jButton4)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jButton5)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jButton6)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jButton7))
                .addComponent(jLabel1)
                .addComponent(jLabel2)
                .addComponent(jLabel3))
            .addContainerGap())
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel4)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(date, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 100, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jTable1, javax.swing.GroupLayout.PREFERRED_SIZE, 100, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton1)
                .addComponent(jButton2)
                .addComponent(jButton3)
                .addComponent(jButton4)
                .addComponent(jButton5)
                .addComponent(jButton6)
                .addComponent(jButton7))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabel1)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabel2)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabel3))
        .addContainerGap())
    );

    pack();
}

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void dateActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}
```

```
jLabel1.setText("Branch :");

jLabel2.setText("Departure Date :");

jLabel3.setText("Return Date :");

jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null, null, null}
    },
    new String [] {
        "TripCost", "MaxSeats", "TotalReservations", "EmptySeats", "DriverName",
        "DriverLastname", "GuideName", "GuideLastname", "DepartureDate", "ReturnDate"
    }
));
jScrollPane1.setViewportView(jTable1);

jButton1.setText("Show Info");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jButton2.setText("Trip");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
```

```
jButton3.setText("Event");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
});

jButton4.setText("Travel_to");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});
});

jButton5.setText("Log out");
jButton5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton5ActionPerformed(evt);
    }
});
};

jButton6.setText("Back");
jButton6.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton6ActionPerformed(evt);
    }
});
});
```

```

jButton7.setText("Destination");
jButton7.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton7ActionPerformed(evt);
    }
});
});

jLabel4.setText("Choose to INSERT,DELETE,UPDATE on any of these tables");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addComponent(jButton6)
    .addGap(5, 5, 5)
    .addComponent(jButton5))
    .addGroup(layout.createSequentialGroup()
        .addGap(5, 5, 5)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 57, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 96, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(5, 5, 5)
        .addComponent(jLabel3)))
));

```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(date, javax.swing.GroupLayout.PREFERRED_SIZE, 91,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(18, 18, 18)
    .addComponent(jLabel2)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(date1, javax.swing.GroupLayout.PREFERRED_SIZE, 102,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(179, 179, 179))
.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(324, 324, 324)
        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 98,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(layout.createSequentialGroup()
        .addContainerGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 95,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createSequentialGroup()
            .addComponent(jLabel4)
            .addGap(18, 18, 18)
            .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 95,
95, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 95,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addComponent(jButton7, javax.swing.GroupLayout.PREFERRED_SIZE,
95, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jButton5)
    .addComponent(jButton6))
    .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel1)
    .addComponent(date, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel3)
    .addComponent(date1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel2))
    .addGap(18, 18, 18)
    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 97,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(jButton1)
    .addGap(115, 115, 115)
    .addComponent(jButton2)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(jButton3)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jButton4)
    .addComponent(jLabel4))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(jButton7)
    .addContainerGap(54, Short.MAX_VALUE)))
);
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    DefaultTableModel mytbl = (DefaultTableModel) jTable1.getModel();  
    mytbl.setRowCount(0);  
    conn=DBconnection.ConnectDB();  
  
    String stored="{call show_trip_details(?, ?, ?)}";  
  
    try{  
        CallableStatement callshowtrip=conn.prepareCall(stored);  
        String s_branch_code=jTextField1.getText();  
        callshowtrip.setString(1,s_branch_code);  
        String upperlimit_date=date.getText();  
        callshowtrip.setString(2,upperlimit_date);  
        String lowerlimit_date=date1.getText();  
        callshowtrip.setString(3,lowerlimit_date);  
        callshowtrip.execute();  
        rs = callshowtrip.getResultSet();  
  
        if(rs.next()){  
  
            while(rs.next()){  
                int trc = rs.getInt("tr_cost");  
                String tr_cost=String.valueOf(trc);  
  
                int mxs = rs.getInt("tr_maxseats");  
                String max_seats=String.valueOf(mxs);  
  
                int tr = rs.getInt("Total_resesrvations");  
                String total=String.valueOf(tr);  
  
                int emps = rs.getInt("Empty_seats");  
                String Empty_seats=String.valueOf(emps);  
  
                String driver_name=rs.getString("Driver_name");  
                String driver_lname=rs.getString("Driver_lastname");  
  
                String guide_name=rs.getString("Guide_name");  
                String guide_lname=rs.getString("Guide_lastname");  
  
                String departure_date=rs.getString("Departure_date");  
                String return_date=rs.getString("Return_date");  
            }  
        }  
    }  
}
```

```
String table1[]=
{tr_cost,max_seats,total,Empty_seats,driver_name,driver_lname,guide_name,guide_lname,dep
arture_date,return_date};

    mytbl.addRow(table1);

}

}

else{
    JOptionPane.showMessageDialog(null,"No trips found");
}

}

catch(SQLException ex){
    JOptionPane.showMessageDialog(null,ex);
}

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    String str = getUser();
}

private void jButton7ActionPerformed(java.awt.event.ActionEvent evt) {
    String str = getUser();
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    String us = getUser();
    this.dispose();
    TripUpdate trpu=new TripUpdate(us);
    trpu.setVisible(true);

}
```

```
private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {  
  
    this.dispose();  
    MENU_IT mn=new MENU_IT();  
    mn.setVisible(true);  
}
```

```
private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {  
  
    this.dispose();  
    Login log=new Login();  
    log.setVisible(true);  
}
```

```
private void dateActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
}
```

```
private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
}
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    String str = getUser();  
}
```

```
/**  
 * @param args the command line arguments  
 */  
  
public static void main(String args[]) {  
    /* Set the Nimbus look and feel */  
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html  
     */  
    try {  
        for (javax.swing.UIManager.LookAndFeelInfo info :  
            javax.swing.UIManager.getInstalledLookAndFeels()) {  
            if ("Nimbus".equals(info.getName())) {  
                javax.swing.UIManager.setLookAndFeel(info.getClassName());  
                break;  
            }  
        }  
    } catch (ClassNotFoundException ex) {  
  
        java.util.logging.Logger.getLogger(TripMenu.class.getName()).log(java.util.logging.Level.SEVERE,  
        null, ex);  
    } catch (InstantiationException ex) {  
  
        java.util.logging.Logger.getLogger(TripMenu.class.getName()).log(java.util.logging.Level.SEVERE,  
        null, ex);  
    } catch (IllegalAccessException ex) {  
  
        java.util.logging.Logger.getLogger(TripMenu.class.getName()).log(java.util.logging.Level.SEVERE,  
        null, ex);  
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
  
        java.util.logging.Logger.getLogger(TripMenu.class.getName()).log(java.util.logging.Level.SEVERE,  
        null, ex);  
    }  
    //</editor-fold>  
  
    /* Create and display the form */  
    java.awt.EventQueue.invokeLater(new Runnable() {  
        public void run() {  
            new TripMenu().setVisible(true);  
        }  
    });  
}
```

```
// Variables declaration - do not modify
private javax.swing.JTextField date;
private javax.swing.JTextField date1;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton5;
private javax.swing.JButton jButton6;
private javax.swing.JButton jButton7;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
private javax.swing.JTextField jTextField1;
// End of variables declaration
```

```
}
```

- TripUpdate

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
 */
package travel_agency;

import java.sql.*;
import java.text.DateFormat;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Locale;
import javax.swing.table.DefaultTableModel;
import java.util.Date;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;

import javax.swing.*;

/**
 *
 * @author admin
 */
public class TripUpdate extends javax.swing.JFrame {

    Connection conn=null;
    PreparedStatement pst=null;
    ResultSet rs=null;
    private String currentUser;
    /**
     * Creates new form TripUpdate
     */
    public TripUpdate() {
        initComponents();
        date1();
        date2();
    }
}
```

```
public TripUpdate(String currentUser) {  
    initComponents();  
    this.currentUser = currentUser;  
}  
  
public String getUser() {  
    return this.currentUser;  
}  
  
public void date1(){  
  
    SimpleDateFormat txtDateTime = new SimpleDateFormat("yyyy/MM/dd HH:mm:ss",  
Locale.FRANCE);  
    String formattedDateTime = txtDateTime.format(new Date());  
    date.setText(formattedDateTime);  
}  
  
public void date2(){  
  
    SimpleDateFormat txtDateTime = new SimpleDateFormat("yyyy/MM/dd HH:mm:ss",  
Locale.FRANCE);  
    String formattedDateTime = txtDateTime.format(new Date());  
    date1.setText(formattedDateTime);  
  
}  
  
/**  
 * This method is called from within the constructor to initialize the form.  
 * WARNING: Do NOT modify this code. The content of this method is always  
 * regenerated by the Form Editor.  
 */
```

```
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    date = new javax.swing.JTextField();
    date1 = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    jTextField3 = new javax.swing.JTextField();
    jLabel6 = new javax.swing.JLabel();
    jTextField4 = new javax.swing.JTextField();
    jTextField5 = new javax.swing.JTextField();
    jLabel7 = new javax.swing.JLabel();
    jLabel8 = new javax.swing.JLabel();
    jButton1 = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    jLabel9 = new javax.swing.JLabel();
    jTextField6 = new javax.swing.JTextField();
    jComboBox2 = new javax.swing.JComboBox<>();
    jLabel13 = new javax.swing.JLabel();
    jTextField8 = new javax.swing.JTextField();
    jLabel14 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jButton2 = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();
    jButton4 = new javax.swing.JButton();
    jButton5 = new javax.swing.JButton();
    jLabel15 = new javax.swing.JLabel();
    jLabel16 = new javax.swing.JLabel();
    jLabel17 = new javax.swing.JLabel();
    jButton6 = new javax.swing.JButton();
    jLabel12 = new javax.swing.JLabel();
    jButton7 = new javax.swing.JButton();
    jTextField2 = new javax.swing.JTextField();
}
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

date.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        dateActionPerformed(evt);
    }
});

jLabel2.setText("DepartureDate :");

jLabel3.setText("ReturnDate :");

jLabel4.setText("MaxSeats :");

jLabel5.setText("Cost :");

jLabel6.setText("Branch :");

jTextField5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField5ActionPerformed(evt);
    }
});

jLabel7.setText("Guide AT :");

jLabel8.setText("Driver AT :");

jButton1.setText("Insert");

jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
```

```
jLabel1.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel1.setText("Choose your action :");

jLabel9.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel9.setText(".Insert destination");

jComboBox2.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
"Ibiza      ", "Arta      ", "Madrid     ", "Kastoria   ", "Mosxa     ", "Pekino     ", "Milan
", "Valladolid ", "Rome      ", "Florence    ", "New York   ", "Amsterdam  ", "Santorini
", "Astypalaia ", "Thessaloniki ", "Xalkidiki   ", "Leonidio    ", "Kalavryta   ", "Elatia
", "London     ", "Trikala" }));
jLabel13.setText("Trip ID :");

jLabel14.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel14.setText(".Delete Trip");

jTable1.setModel(new javax.swing.table.DefaultTableModel(
 new Object [][] {
 {null, null, null, null, null, null, null, null, null, null},
 {null, null, null, null, null, null, null, null, null, null},
 {null, null, null, null, null, null, null, null, null, null},
 {null, null, null, null, null, null, null, null, null, null}
 },
 new String [] {
 "Title 1", "Title 2", "Title 3", "Title 4", "Title 5", "Title 6", "Title 7", "Title 8", "Title
9", "Title 10", "Title 11"
 }
));
}));
```

```
jScrollPane1.setViewportView(jTable1);

jButton2.setText("Show trips");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

jButton3.setText("Back");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});

jButton4.setText("Log out");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});

jButton5.setText("Delete");
jButton5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton5ActionPerformed(evt);
    }
});

jLabel15.setFont(new java.awt.Font("Sitka Small", 1, 14)); // NOI18N
jLabel15.setText(".Insert trip");
jLabel16.setText("Trip ID :");
jLabel17.setText("Destination :");
jButton6.setText("Insert");
jButton6.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton6ActionPerformed(evt);
    }
});

jLabel12.setText("Choose to make a reservation to a trip :");
```

```
jButton7.setText("OK");
jButton7.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton7ActionPerformed(evt);
    }
});
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jButton3)
        .addGap(18, 18, 18)
        .addComponent(jButton4))
    .addGroup(layout.createSequentialGroup()
        .addGap(20, 20, 20)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel14)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel13)
                .addGap(18, 18, 18)
                .addComponent(jTextField8, javax.swing.GroupLayout.PREFERRED_SIZE,
                    138, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jButton5)))
            .addComponent(jLabel15)))
);

.layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel9)
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel1)
            .addGroup(layout.createSequentialGroup()
                .addGap(18, 18, 18)
                .addComponent(jButton1)
                .addGap(18, 18, 18)
                .addComponent(jButton2)))
            .addComponent(jLabel2)))
);

.layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(18, 18, 18)
        .addComponent(jButton6)
        .addGap(18, 18, 18)
        .addComponent(jButton7))
    .addGroup(layout.createSequentialGroup()
        .addGap(18, 18, 18)
        .addComponent(jButton8)
        .addGap(18, 18, 18)
        .addComponent(jButton9)))
);
```

```
.addComponent(jLabel17)
.addComponent(jLabel16)
.addGap(72, 72, 72))
.addGroup(layout.createSequentialGroup()
.addComponent(jLabel16)
.addGap(98, 98, 98)))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
.addComponent(jComboBox2, 0, 131, Short.MAX_VALUE)
.addComponent(jTextField2)))
.addGroup(layout.createSequentialGroup()
.addGap(165, 165, 165)
.addComponent(jButton6)))
.addGroup(layout.createSequentialGroup())

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jLabel3)
.addComponent(jLabel4)
.addComponent(jLabel6)
.addComponent(jLabel7)
.addComponent(jLabel8)
.addComponent(jLabel2)
.addComponent(jLabel5))
.addGap(56, 56, 56)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
.addComponent(jTextField6, javax.swing.GroupLayout.DEFAULT_SIZE,
131, Short.MAX_VALUE)
.addComponent(date)
.addComponent(jTextField4)
.addComponent(jTextField3)
.addComponent(date1)
.addComponent(jTextField1)
.addComponent(jTextField5,
javax.swing.GroupLayout.Alignment.TRAILING)))))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(layout.createSequentialGroup()
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
584, javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(29, 29, 29))
```

```
.addGroup(layout.createSequentialGroup()
    .addGap(353, 353, 353)
    .addComponent(jButton2)
    .addGap(0, 0, Short.MAX_VALUE))
.addGroup(layout.createSequentialGroup()
    .addGap(103, 103, 103)
    .addComponent(jLabel12)
    .addGap(41, 41, 41)
    .addComponent(jButton7, javax.swing.GroupLayout.PREFERRED_SIZE, 101,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))))
.addGroup(layout.createSequentialGroup()
    .addGap(14, 14, 14)
    .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 170,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addContainerGap(822, Short.MAX_VALUE))
.addGroup(layout.createSequentialGroup()
    .addGap(187, 187, 187)
    .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 86,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(0, 0, Short.MAX_VALUE)))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jButton4)
            .addComponent(jButton3))
        .addGap(29, 29, 29)
        .addComponent(jLabel1)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGroup(layout.createSequentialGroup()
                    .addGap(80, 80, 80)
                    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 180,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    ..addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jButton2))
                .addGroup(layout.createSequentialGroup()
                    .addGap(36, 36, 36)
                    .addComponent(jButton1)
                    .addGap(36, 36, 36)
                    .addComponent(jButton3)))))))
```

```
.addComponent(jLabel14)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel13)
        .addComponent(jTextField8, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jButton5))
    .addGap(34, 34, 34)
    .addComponent(jLabel15)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(date, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel2))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(date1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel3))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel4))
    .addGap(15, 15, 15)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jTextField6, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel5))
    .addGap(18, 18, 18)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel6))
    .addGap(18, 18, 18)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel7)
        .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(12, 12, 12)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel8)
        .addComponent(jLabel12)
        .addComponent(jButton7)))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(jButton1)
.addGap(54, 54, 54)
.addComponent(jLabel9)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel16)
        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel17)
        .addComponent(jComboBox2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(jButton6)
.addContainerGap(117, Short.MAX_VALUE))
);

pack();
}// </editor-fold>
```

```
private void jTextField5ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
}  
  
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    conn=DBconnection.ConnectDB();  
  
    String depdate=date.getText();  
    DateFormat depdate1 = new SimpleDateFormat("yyyy/MM/dd HH:mm:ss");  
  
    String retdate=date1.getText();  
    DateFormat retdate1 = new SimpleDateFormat("yyyy/MM/dd HH:mm:ss");  
  
    String ms = jTextField1.getText();  
    int maxseats = Integer.parseInt(ms);  
  
    String c = jTextField6.getText();  
    float cost = Float.parseFloat(c);  
  
    String b = jTextField3.getText();  
    int brcode=Integer.parseInt(b);  
  
    String gAT=jTextField4.getText();  
  
    String dAT=jTextField5.getText();  
  
    String myQuery1 = "INSERT INTO trip VALUES (NULL,?,?,?,?,?,?) ";  
  
    String username = getUser();  
    String mq="INSERT INTO user (user_lastname) VALUES(?) ";
```

```
try{  
  
    pst = conn.prepareStatement(mq);  
    pst.setString(1, userlname);  
    int y = pst.executeUpdate();  
  
    Date depdate2 = depdate1.parse(deptime);  
    Date retdate2= retdate1.parse(rettime);  
  
    pst= conn.prepareStatement(myQuery1);  
    pst.setTimestamp(1, new Timestamp(depdate2.getTime()));  
    pst.setTimestamp(2, new Timestamp(retdate2.getTime()));  
    pst.setInt(3,maxseats);  
    pst.setFloat(4,cost);  
    pst.setInt(5,brcode);  
    pst.setString(6,gAT);  
    pst.setString(7,dAT);  
    pst.executeUpdate();  
    JOptionPane.showMessageDialog(null, "The insert was successfull");  
  
    date.setText("");  
    date1.setText("");  
    jTextField1.setText("");  
    jTextField6.setText("");  
    jTextField3.setText("");  
    jTextField4.setText("");  
    jTextField5.setText("");  
  
}  
catch (SQLException ex) {  
    JOptionPane.showMessageDialog(null, ex);  
} catch (ParseException ex) {  
    Logger.getLogger(TripUpdate.class.getName()).log(Level.SEVERE, null, ex);  
}
```

```
private void dateActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
}  
  
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
    DefaultTableModel mytbl = (DefaultTableModel) jTable1.getModel();  
    mytbl.setRowCount(0);  
    conn=DBconnection.ConnectDB();  
    String myquery="SELECT  
tr_id,tr_departure,tr_return,tr_maxseats,tr_cost,tr_br_code,tr_gui_AT,tr_drv_AT,to_arrival,to_departure,d  
st_name FROM travel_to INNER JOIN trip ON to_tr_id=tr_id INNER JOIN destination ON  
to_dst_id=dst_id;";  
    try{  
        pst=conn.prepareStatement(myquery);  
        rs= pst.executeQuery();  
        while(rs.next()){  
            int trid = rs.getInt("tr_id");  
            String trip_id=String.valueOf(trid);  
  
            String depdate=rs.getString("tr_departure");  
            String retdate=rs.getString("tr_return");  
  
            int mx = rs.getInt("tr_maxseats");  
            String max_seats=String.valueOf(mx);  
  
            int tc = rs.getInt("tr_cost");  
            String tr_cost=String.valueOf(tc);  
  
            int bc= rs.getInt("tr_br_code");  
            String tr_br_code=String.valueOf(bc);  
  
            String tr_gui_AT=rs.getString("tr_gui_AT");  
            String tr_drv_AT=rs.getString("tr_drv_AT");  
  
            String to_arrival=rs.getString("to_arrival");  
            String to_departure=rs.getString("to_departure");  
  
            String destination=rs.getString("dst_name");  
        }  
    }  
}
```

```
String table1[]=
{trip_id,depdate,retdate,max_seats,tr_cost,tr_br_code,tr_gui_AT,tr_drv_AT,to_arrival,to_departur
e,destination};

    mytbl.addRow(table1);
}

}

catch(SQLException ex){
JOptionPane.showMessageDialog(null,ex);

}

}
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
```

```
    this.dispose();
    TripMenu tm=new TripMenu();
    tm.setVisible(true);
}
```

```
private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
```

```
    this.dispose();
    Login log=new Login();
    log.setVisible(true);
}
```

```
private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {  
    conn=DBconnection.ConnectDB();  
  
    String id = jTextField8.getText();  
    int tripid = Integer.parseInt(id);  
  
    String myQuery="SELECT * FROM trip WHERE tr_id = ?";  
    String myQuery1 = "DELETE FROM trip WHERE tr_id = ?";  
  
    try{  
        pst=conn.prepareStatement(myQuery);  
        pst.setInt(1,tripid);  
        rs=pst.executeQuery();  
  
        if(rs.next()){  
            pst=conn.prepareStatement(myQuery1);  
            pst.setInt(1,tripid);  
            pst.executeUpdate();  
  
            JOptionPane.showMessageDialog(null, "The deletion of that trip was successfull");  
            jTextField8.setText("");  
  
        }  
  
        else{  
            JOptionPane.showMessageDialog(null, "There is no trip with that ID");  
        }  
    }  
  
    catch (SQLException ex) {  
        JOptionPane.showMessageDialog(null, ex);  
    }  
}
```

```
private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {  
  
    String destin=jComboBox2.getSelectedItem().toString();  
  
}  
  
}
```

```
private void jButton7ActionPerformed(java.awt.event.ActionEvent evt) {  
    this.dispose();  
    MakeReservation mr = new MakeReservation();  
    mr.setVisible(true);  
}
```

```
/**  
 * @param args the command line arguments  
 */  
  
public static void main(String args[]) {  
    /* Set the Nimbus look and feel */  
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html  
     */  
    try {  
        for (javax.swing.UIManager.LookAndFeelInfo info :  
            javax.swing.UIManager.getInstalledLookAndFeels()) {  
            if ("Nimbus".equals(info.getName())) {  
                javax.swing.UIManager.setLookAndFeel(info.getClassName());  
                break;  
            }  
        }  
    } catch (ClassNotFoundException ex) {  
  
        java.util.logging.Logger.getLogger(TripUpdate.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (InstantiationException ex) {  
  
        java.util.logging.Logger.getLogger(TripUpdate.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (IllegalAccessException ex) {  
  
        java.util.logging.Logger.getLogger(TripUpdate.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
  
        java.util.logging.Logger.getLogger(TripUpdate.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
    }  
    //</editor-fold>  
  
    /* Create and display the form */  
    java.awt.EventQueue.invokeLater(new Runnable() {  
        public void run() {  
            new TripUpdate().setVisible(true);  
        }  
    });  
}
```

```
// Variables declaration - do not modify  
private javax.swing.JTextField date;  
private javax.swing.JTextField date1;  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JButton jButton3;  
private javax.swing.JButton jButton4;  
private javax.swing.JButton jButton5;  
private javax.swing.JButton jButton6;  
private javax.swing.JButton jButton7;  
private javax.swing.JComboBox<String> jComboBox2;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel12;  
private javax.swing.JLabel jLabel13;  
private javax.swing.JLabel jLabel14;  
private javax.swing.JLabel jLabel15;  
private javax.swing.JLabel jLabel16;  
private javax.swing.JLabel jLabel17;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JLabel jLabel6;  
private javax.swing.JLabel jLabel7;  
private javax.swing.JLabel jLabel8;  
private javax.swing.JLabel jLabel9;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTable jTable1;  
private javax.swing.JTextField jTextField1;  
private javax.swing.JTextField jTextField2;  
private javax.swing.JTextField jTextField3;  
private javax.swing.JTextField jTextField4;  
private javax.swing.JTextField jTextField5;  
private javax.swing.JTextField jTextField6;  
private javax.swing.JTextField jTextField8;  
// End of variables declaration  
}
```