Project rapport

Ahmed Abdulkader & Chippen Vlahija
Malmö University

Tables

Band: (BandID, country, bandname, contactPerson)
FK: contactPerson → worker

This table contains useful information about the band. Which country they come from, their band name and which member has the contact person role.

SqlCommand : select* from band;

Member:(memberID, name)
For each member there's an unique memberID, this table also contains the members name.

SqlCommand : select* from member;

PartOf:(memberID, BandID)
FK: memberID→ Member
FK: bandID → Band

PartOf is a linking table that acts as a bridge between the table member and Band. A member can be part of several bands and a band can have several members. The attributes together makes up as a primary key. (Composite primary key).

*SqlCommand : select * from partOf;*

```
memberid | bandid
---------+-------
       1 |      1
       3 |      2
```

Schedule:(bandID, time, event, day, securityID)
FK: bandID → Band
FK: securityID → Worker

This table contains information about each performance. The event column tells which event the band will perform in. Time, band, day and securityID is also given in this table.

*SqlCommand : select * from Schedule;*

```
bandid | time  |     event     |   day   | securityid
-------+-------+---------------+---------+-----------
     1 | 13:00 | globen        | Torsdag |  19980813
     2 | 17:00 | friendsarena  | Fredag  |  19961109
```

Worker:(dateofbirth,name,address)
Information about each worker can be found in this table, the workers are separated by and unique date of birth. A 'worker' can be either a contact person or security worker.

*SqlCommand : select * from Worker;*

```
dateofbirth |  name   |     address
------------+---------+----------------
   19910303 | Alex    | konsult
   19900101 | Zidane  | Konsult
   19990101 | Aziz    | Landskrona
   19970523 | Nils    | konsultgatan 31
   19961109 | Ahmed   |  Helsingborg
   19940202 | Anders  |  Konsult
   19980813 | Chippen | konsultgatan 35
```

Class description

StaffUI
This class is for the staff to manage data. From this class the staff can:
- Add a band.
- Assign a contact person.
- Adding plays to the schedule.

And they can also list all the contact persons.
By pressing wished button the staff will get forward to another 'panel' where they can input or update data.

VisitorUI
Visitors don't have any functions to update or input data. This UI contains 2 buttons, one of the buttons will show all bands and the information about them (band, country, name, member). The second button contains the schedule where the visitor can view the time, scene and date.

RetrieveInfo/InfoModifier:
Logical classes that handles updating and getting information to/from the database. These classes contains methods where you can update each table and also there are methods that returns a list of the required information.

Program language and components

pnlOverView(JPanel)
The first page that is shown to the staff and contains 4 buttons

pnlBand(JPanel)
This panel contains buttons for:
- Adding a band
- removing a band
- adding/ removing a member to/from a band

The panel also contains a GridLayout for better positioning the componenets.

JButton
- All the buttons have variables explaning the button such as btnAddWorker, adds a worker.

JLabel
- Each panel has a title (JLabel) placed in the top center such as "worker" on the worker-panel.

JScrollPane
- A scrollbar for scrolling through bands

Entity–Relationship diagram

- **Schedule** (entity)
  - Event
  - day
  - Time
  - BandID
  - SecurityID

- **Band** (entity)
  - BandID
  - Country
  - Brandname
  - ContactPerson

- **Member** (entity)
  - MemberID
  - Name

- **Worker** (entity)
  - dateOfBirth
  - Name
  - Adress

- **Plays at** (relationship): Band 1 — M Schedule
- **Security** (relationship): Schedule M — 1 Worker
- **Responsible** (relationship): M — 1
- **part of** (relationship): Band M — M Member
  - memberID
  - BandID