

COMP2411 Project BSM User Guide

Group 5

Introduction

The **Banquet Management System (BSM)** is a system which allows administrators to **organise banquets**, and users to login and **register for banquets**. It provides **SQL functions** for administrator to **manage and create banquets**. Finally, it provides **search** and **reports** for administrator as reference. Users can also modify their registered data according to their needs.

Commands description

For **administrator (admin)**:

They can use functionalities **1 – 8** to organise the banquet, which includes:

1. Create Banquet

This command allows admin to **create a new banquet**. It requires the information of banquet name, date and time of banquet, address, location, first name of contact staff, last name of contact staff, availability and quota. After the basic info inputted, the admin also needs to input 4 different meal information.

```
Create Banquet
Enter Banquet Name: Party
Enter Date and Time (yyyy-MM-dd HH:mm): 2025-01-01 00:00
Enter Address: here
Enter Location: Earth
Enter First Name of Contact Staff: Chris
Enter Last Name of Contact Staff: Wong
Is the Banquet Available? (Y/N): Y
Enter positive integer for Quota: 50
New banquet created

--enter details for meal 1
Enter Dish Name: meal1
Enter positive value for Price: a
Invalid input. Please enter a numeric value.
Enter positive value for Price: -1
Please enter a positive value for Price.
Enter positive value for Price: 20
Enter Meal Type: ("fish", "chicken", "beef", "vegetarian")Enter Meal Type: ("fish", "chicken", "beef", "vegetarian")fish
Enter Special Cuisine: sp
Meal added successfully!

--enter details for meal 2
Enter Dish Name: meal1
Dish name already exists. Please enter a unique one:
Enter Dish Name: meal2
Enter positive value for Price:
```

2. List All Banquets

This command allows admin to **list out all existing banquet information.**

```
Enter your choice: 2
BIN: 1001 | Name: Annual Gala | DateTime: 2023-12-01T19:00 | Address: 123 Main St | Location: Ballroom A | Contact: John Doe | Available: Y | Quota: 198 | MaxQuota: 200
BIN: 1002 | Name: Charity Dinner | DateTime: 2023-12-10T18:30 | Address: 456 Elm St | Location: Hall B | Contact: Jane Smith | Available: Y | Quota: 149 | MaxQuota: 150
BIN: 1003 | Name: New Year Celebration | DateTime: 2024-01-05T20:00 | Address: 789 Pine St | Location: Roof Top | Contact: Emily Johnson | Available: N | Quota: 99 | MaxQuota: 100
BIN: 1004 | Name: Spring Festival | DateTime: 2024-03-15T17:00 | Address: 321 Maple Ave | Location: Garden Area | Contact: Michael Brown | Available: Y | Quota: 249 | MaxQuota: 250
BIN: 1005 | Name: Corporate Retreat | DateTime: 2024-04-20T12:00 | Address: 654 Oak Rd | Location: Conference Room | Contact: Sarah Davis | Available: Y | Quota: 99 | MaxQuota: 100
BIN: 1006 | Name: party | DateTime: 2000-11-11T11:11 | Address: home | Location: sweetHome | Contact: me you | Available: Y | Quota: 1 | MaxQuota: 1
BIN: 1007 | Name: Party | DateTime: 2025-01-01T00:00 | Address: here | Location: Earth | Contact: Chris Wong | Available: Y | Quota: 50 | MaxQuota: 50
```

3. Update banquets

This command allows admin to **update banquet information.** The admin can type any column name displayed and modify accordingly. After adjustment, it would display a successful message, and admin can choose to continue updating or exit the function.

```
Update Banquet
Enter bin:
1007
BIN: 1007 | BanquetName: Party | DateTime: 2025-01-01T00:00 | Address: here | Location: Earth | ContactFN: Chris | ContactLN: Wong | Available: Y | Quota: 50
Enter column name:
Please enter a correct column name!
Enter column name:
location
Enter new input:
Mars
Updated version:
BIN: 1007 | BanquetName: Party | DateTime: 2025-01-01T00:00 | Address: here | Location: Mars | ContactFN: Chris | ContactLN: Wong | Available: Y | Quota: 50
Type anything to update other column on this, or -1 for stopping this function
```

4. List all attendees

This command allows admin to **list out all attendee accounts' information**.

```
Enter your choice: 4
Email: emily.johnson@example.com | Name: Emily Johnson | Address: 789 Pine St, City | AttendeeType: alumni | Password: s
ecurepass | PhoneNumber: 34567890 | Organization: HKCC
Email: jane.smith@example.com | Name: Jane Smith | Address: 456 Elm St, City | AttendeeType: student | Password: mypassw
ord | PhoneNumber: 23456789 | Organization: SPEED
Email: john.doe@example.com | Name: John Doe | Address: 123 Main St, City | AttendeeType: staff | Password: password123
| PhoneNumber: 12345678 | Organization: PolyU
Email: michael.brown@example.com | Name: Michael Brown | Address: 321 Maple Ave, City | AttendeeType: guest | Password:
guestpass | PhoneNumber: 45678901 | Organization: Others
Email: sarah.davis@example.com | Name: Sarah Davis | Address: 654 Oak Rd, City | AttendeeType: staff | Password: staffpa
ss | PhoneNumber: 56789012 | Organization: PolyU
Email: chrisw@mail.com | Name: chris wong | Address: homeeee | AttendeeType: student | Password: asdf | PhoneNumber: 999
9999 | Organization: PolyU
```

5. Update attendee registration information

This command allows admin to **update attendee registration information**, such as **meal choice**, **drink choice** and **remarks**. The admin input the email of the attendee for choice of modification, then BIN of the banquet, update the information and it would display a successful message. The admin can choose to continue updating or exit the function.

```
Enter your choice: 5
Update acc registration information

Enter email:
chrisw@mail.com
chrisw@mail.com was found successfully

Email: chrisw@mail.com
Bin: 1001 | Email: chrisw@mail.com | MealChoice: Pasta Primavera | DrinkChoice: tea | Remarks: none
Enter bin:
1001
1001 was found successfully
1001 was found successfully

Enter column name: (MEALCHOICE, DRINKCHOICE, REMARKS)
drinkchoice
Enter new input:
lemon tea
update successful
Type anything to update registration information on this email, or -1 for stopping this function
```

6. List All registration

This command allows admin to **list out information about the registrations of banquets**.

```
6. List All registration(for testing)
7. Generate reports
8. Exit
Enter your choice: 6
BIN: 1001 | Email: john.doe@example.com | Drink: Red Wine | Meal: Pasta Primavera | Remarks: Looking forward to it! | re
gistrationTime: 2024-11-30T03:21:06.812262 | SeatNum: 1
BIN: 1002 | Email: jane.smith@example.com | Drink: Soft Drink | Meal: Sweet and Sour Pork | Remarks: Can I have a vegeta
rian option? | registrationTime: 2024-11-30T03:21:06.817395 | SeatNum: 1
BIN: 1003 | Email: emily.johnson@example.com | Drink: Water | Meal: Grilled Salmon | Remarks: Excited for the buffet! |
registrationTime: 2024-11-30T03:21:06.818395 | SeatNum: 1
BIN: 1004 | Email: michael.brown@example.com | Drink: Beer | Meal: Quinoa Salad | Remarks: First time attending. | regis
trationTime: 2024-11-30T03:21:06.819306 | SeatNum: 1
BIN: 1005 | Email: sarah.davis@example.com | Drink: Juice | Meal: Croissant | Remarks: Allergic to nuts. | registrationT
ime: 2024-11-30T03:21:06.820252 | SeatNum: 1
```

7. Generate reports

This command allows administrators to **get the reports** of the 1. **most popular meals**, 2. **attendance behavior**, 3. **available banquets** and 4. **most expensive banquets**.

```
Enter your choice: 7
Generate report for
1. Registration status
2. Most popular meals
3. Attendance behavior
4. Most expensive banquets
--
Enter your choice: 1
1. Registration status
Available Banquets:
--
BIN      QUOTA    BANQUET NAME
1001    2/200    Annual Gala
1002    1/150    Charity Dinner
1004    1/250    Spring Festival
1005    1/100    Corporate Retreat
```

2. **Most popular meals:**

```
-- 
COUNT    DISH NAME
2        Pasta Primavera
1        Grilled Salmon
1        Croissant
1        Sweet and Sour Pork
1        Quinoa Salad
```

3. **Attendance behavior:**

```
-- 
BIN      ATTENDEE COUNT
1001    2
1002    1
1003    1
1004    1
1005    1
```

4. **Most expensive banquets:**

```
-- 
BIN      SUM OF PRICE    BANQUET NAME
1003    85                New Year Celebration
1004    75                Spring Festival
1001    60                Annual Gala
1002    55                Charity Dinner
1007    27                Party
1005    25                Corporate Retreat
```

8. Exit

This command allow admin to **terminate** the system.

```
Enter your choice: 8
Exiting the system. Goodbye!
23087882d-apollo:/home/23087882d$
```

For **users** (attendees):

They can use functionalities **1 – 7** to login to their account register for banquets and modify their registered information, which includes:

1. Create Account

This command allows user to **create their account** in the BMS. They need to input their first name, last name, address, attendee type, email (containing @), password, mobile no. (requires 8 digits), Organization (case-sensitive).

After successful creation, a message would be printed.

```
Attendee Registration System
1. Create Account
2. Login
5. Exit
6. List all attendees(for testing)
Enter your choice: 1

Create Account

Enter First Name: chris
Enter Last Name: wong
Enter Address: hongkong
Enter Attendee Type (staff, student, alumni, guest): student
Enter Email Address: cwong@mail.com
Enter Password: qwerty
Enter Phone Number: 91234567
Enter Organization: (PolyU, SPEED, HKCC, Others)PolyU
Debugging Insert: Email=cwong@mail.com, FName=chris, LName=wong, Address=hongkong, AttendeeType=student, Password=qwerty, PhoneNo=91234567, Organization=PolyU
Account created
```

2. Login

This command allows user to **login** to their account. The user is required to input their email address and password. Once both inputs match, the login is successful, and a welcome message is printed. If the user chooses for options (1) or (2) after login, the system would indicate that he has already logged in.

```
Attendee Registration System
1. Create Account
2. Login
Enter your choice: 2
Login

Enter Email: chrisw@mail.com
Enter Password: asdf

Login successful! Welcome, Chris Wong.

Attendee Registration System
1. Create Account
2. Login
3. Update Profile
4. Register for Banquet
5. Search with criteria
6. List all Available Banquets
7. Log out
8. Exit
Enter your choice: 1
You are logged in
```

3. Update Profile

This command allows users to **update their account information**. After a successful login to their account, the user can choose to update the account information. They can type any column name displayed to update. After the update, the system would display a successful message, and the user can choose to continue updating or exit the function.

```
Update Account details
Email: chrisw@mail.com | FName: chris | LName: wong | Address: homeeee | AttendeeType: student | Password: asdf | PhoneN
o: 99999999 | Organization: PolyU
Enter column name:
phoneno
Enter new input:
91234567
update successful
Updated version:
Email: chrisw@mail.com | FName: chris | LName: wong | Address: homeeee | AttendeeType: student | Password: asdf | PhoneN
o: 91234567 | Organization: PolyU
Type anything to update other column on this, or -1 for stopping this function
```

4. Register for Banquet

This command allows users to **register for banquet** with BIN. After the successful login to their account, the user can choose to register for banquet. After users input their preferred BIN, they are asked to enter their preferred drink choice, meal choice and leave some remarks.

```

Register for a Banquet

Available Banquets:
BIN: 1001, Name: Annual Gala, Date: 2023-12-01 19:00:00.0, Location: Ballroom A, Quota: 198, MaxQuota: 200
BIN: 1002, Name: Charity Dinner, Date: 2023-12-10 18:30:00.0, Location: Hall B, Quota: 149, MaxQuota: 150
BIN: 1004, Name: Spring Festival, Date: 2024-03-15 17:00:00.0, Location: Garden Area, Quota: 249, MaxQuota: 250
BIN: 1005, Name: Corporate Retreat, Date: 2024-04-20 12:00:00.0, Location: Conference Room, Quota: 99, MaxQuota: 100
Enter the BIN of the banquet you want to register for: 1002
Enter your drink choice (e.g., Tea, Coffee, Lemon Tea): tea
Available meal options:
- Steamed Dumplings
- Sweet and Sour Pork
Enter your meal choice
(or press [ENTER] for the first available option):
You have chosen: Steamed Dumplings
Enter any remarks (e.g., seating preference, allergies): none
You have successfully registered for the banquet!

```

5. Search with criteria

This command allows user to **use criteria to search for registered banquets**. After the successful login to their account, the user can choose to use criteria to search for registered banquets. The criteria filters for the matching banquets and displays them in a list. It further allows the user to update their registered information for that banquet, for instance, meal/drink choice and remarks. The system would display a message of successful update.

```

Search registered banquets with criteria

Criteria: bin, banquetname, datetime, address, location, contactfn, contactln

Enter the criteria name:
datetime
Enter the input: (day-month-year) such as 13-NOV-00 -> 13th November 2000

10-DEC-23
If you want to add another criteria, enter anything other than done
done

Result with criteria

BIN: 1002 | Name: Charity Dinner | DateTime: 2023-12-10T18:30 | Address: 456 Elm St | Location: Hall B | Contact: Jane S
mith | MealChoice: Steamed Dumplings | DrinkChoice: coffee | Remarks: none

If you want to update registration information upon these results, enter "update" and anything else for exit
update
Enter column name: (MealChoice, DrinkChoice, Remarks)

remarks
Enter an input:
im hungry
update successful

```

6. List All Available Banquets

This command allows user to **list out information of all available banquets**.

```

Enter your choice: 6
Available Banquets:
BIN: 1001, Name: Annual Gala, Date: 2023-12-01 19:00:00.0, Location: Ballroom A, Quota: 198, MaxQuota: 200
BIN: 1002, Name: Charity Dinner, Date: 2023-12-10 18:30:00.0, Location: Hall B, Quota: 148, MaxQuota: 150
BIN: 1004, Name: Spring Festival, Date: 2024-03-15 17:00:00.0, Location: Garden Area, Quota: 249, MaxQuota: 250
BIN: 1005, Name: Corporate Retreat, Date: 2024-04-20 12:00:00.0, Location: Conference Room, Quota: 99, MaxQuota: 100

```

7. Log out

This command allows user to **log out of** the system, and another user could log in on the same computer.

```
7. Log out
8. Exit
Enter your choice: 7
Logged out. Goodbye!

Attendee Registration System

1. Create Account
2. Login
```

8. Exit

This command allows user to **terminate** the system.

```
Enter your choice: 5
Exiting the system. Goodbye!
```

Set Up

• Installation Instructions

```
C:\Users\Elaine>scp -r C:/dbtest/* 23087882d@csdoor.comp.polyu.edu.hk:~
23087882d@csdoor.comp.polyu.edu.hk's password:
AttendeeMenu.java                               100%   19KB   1.7MB/s  00:00
BanquetMenu.java                             100%   17KB   2.4MB/s  00:00
banquet_data.sql                            100% 6274    1.5MB/s  00:00
dbtest.iml                                  100%   501   122.3KB/s 00:00
employee.java                                100% 3165    1.0MB/s  00:00
employee_data.sql                           100%   909   295.9KB/s 00:00
Attendee.java                                100% 7326    1.8MB/s  00:00
Banquet.java                                 100% 5711   929.6KB/s 00:00
Meal.java                                    100% 4926    1.2MB/s  00:00
Register.java                               100% 6289    1.5MB/s  00:00
ojdbc8.jar                                   100% 4970KB  17.7MB/s 00:00
simpleApplication.java                      100% 1201   391.0KB/s 00:00
```

`scp -r C:/dbtest/* 23087882d@csdoor.comp.polyu.edu.hk:~`

Replace with class path (using '/'slash) and your PolyU email, then enter
the password to login with lab computer

Connecting to SSH

`ssh 23087882d@csdoor.comp.polyu.edu.hk` (replace w/ your COMP acc)
same password as above

```
Reset_known_hosts - Reset SSH known_hosts file (If  
apollo/2 and exit from menu aut  
  
Please enter the hostname, command or 'exit':  
<<Enter 'yes' for any authentication message prompt>>  
apollo  
23087882d@apollo's password: |
```

Enter “yes” if it’s your first time connecting to apollo, else type “apollo” as shown above. Enter the same password.

Login to Oracle

```
23087882d-apollo:/home/23087882d$ source /compsoft/app/oracle/dbms.bashrc  
23087882d-apollo:/home/23087882d$ sqlplus
```

source /compsoft/app/oracle/dbms.bashrc

sqlplus

```
Enter user-name: "23087882d"@dbms  
Enter password:  
Last Successful login time: Sat Nov 30 2024 01:07:37 +08:00  
  
Connected to:  
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production  
Version 19.3.0.0.0
```

“[netID]”@dbms

oracle password

```
SQL> @banquet_data.sql
```

```
1 row created.  
  
1 row created.  
  
Commit complete.  
  
SQL> exit  
Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production  
Version 19.3.0.0.0  
23087882d-apollo:/home/23087882d$ |
```

@banquet_data.sql

exit

[Note: this action only needs to be done **once** except when you want to **reset to initial data** in your SQL file. All changes made would be removed.]

Proceed to the instructions below.

- **Initial Setup**

(for administrators)

```
23087882d-apollo:/home/23087882d$ javac model/*.java
23087882d-apollo:/home/23087882d$ javac -cp .:ojdbc8.jar BanquetMenu.java
23087882d-apollo:/home/23087882d$ java -cp .:ojdbc8.jar BanquetMenu

Banquet Management System

1. Create Banquet
2. List All Banquets(for testing)
3. Update Banquets
4. List all attendee (for testing)
5. Update attendee Registration information
6. List All registration(for testing)
7. Generate reports
8. Exit
Enter your choice: |
```

```
javac model/*.java
javac -cp .:ojdbc8.jar BanquetMenu.java
java -cp .:ojdbc8.jar BanquetMenu
```

-
(for attendees)

```
23087882d-apollo:/home/23087882d$ javac model/*.java
23087882d-apollo:/home/23087882d$ javac -cp .:ojdbc8.jar AttendeeMenu.java
23087882d-apollo:/home/23087882d$ java -cp .:ojdbc8.jar AttendeeMenu

Attendee Registration System

1. Create Account
2. Login
5. Exit
Enter your choice: |
```

```
javac model/*.java
javac -cp .:ojdbc8.jar AttendeeMenu.java
java -cp .:ojdbc8.jar AttendeeMenu
```

- User Account Creation

```
Attendee Registration System

1. Create Account
2. Login
5. Exit
Enter your choice: 1

Create Account

Enter First Name: Steve
Enter Last Name: Chan
Enter Address: Hong Kong
Enter Attendee Type (staff, student, alumni, guest): student
Enter Email Address: stevechan@mail.com
Enter Password: steve
Enter Phone Number: 44443333
Enter Organization: (PolyU, SPEED, HKCC, Others)PolyU
Debugging Insert: Email=stevechan@mail.com, FName=Steve, LName=Chan, Address=Hong Kong, AttendeeType=student, Password=steve, PhoneNo=44443333, Organization=PolyU
Account created
```

- Logging In

```
Attendee Registration System
1. Create Account
2. Login
Enter your choice: 2
Login

Enter Email: chrisw@mail.com
Enter Password: asdf

Login successful! Welcome, Chris Wong.

Attendee Registration System

1. Create Account
2. Login
3. Update Profile
4. Register for Banquet
5. Search with criteria
6. List all Available Banquets
7. Log out
8. Exit
Enter your choice: 1
You are logged in
```