WEDDING PLANNING

with Python and Mysgl



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ABSTRACT

Wedding planning takes a lot of work. There is a guest list to be confirmed, a buffet to be ordered, a venue to be secured, photographers to be hired, and entertainment to be chartered - all within a fixed budget. Thus, in our project, we use a database to keep track of the number of attendees and calculate the total expenditure accordingly with an easy-to-use program that offers the user a variety of vendors to choose from.

We use MySQL to create several tables to do the same – store details of the guests, the vendors, and the expenses. A code is then written up using Python to insert data into tables based on the user's input, delete redundant information, and perform basic calculations after retrieving data. In the process of doing so, we will be integrating Python with MySQL; the data is stored on the MySQL server while Python acts as an interface through which we will be accessing the data.

Let the wedding planning begin!

PROJECT AIM

The aim of this project is to make the wedding planning process as efficient as possible. Ideally, all the user has to do is enter their budget and guest list. This software takes care of the rest.

With a function to calculate the number of confirmed attendees (based on RSVPs), and several other functions to pick the best outsourcers (based on user preferences, this software is essentially an optimization program that works to save as much time and effort as possible. In summary, our objective is to:

- enhance efficiency by automating the process and eliminating the need to approach different vendors and services independently serves as a one-stop wedding planning service
- optimise the wedding planning process by saving time and effort as possible with a pick-and-choose program
- create an easily replicable and accessible (user-friendly) program that can be used across most platforms with no prior training

LIMITATIONS

There are some limitations to this program:

- It does not take into account other expenses such as hiring florists, paying for the wedding dress and tuxedo (and fitting sessions), and putting together the wedding favours (thank-you gift bags)
- Another assumption that has been made is that invitations have been sent out to everyone on the guest list despite the lack of code to automate that part of the process. We start the process assuming the guests have responded to the invitations
- The database has four tables to keep tabs of all the details of the vendors. However, there are not many records that have been inserted. Thus, there are only ten options from each vendor that the user can choose from

SYSTEM

SOFTWARE USED:

Operating system: Microsoft Windows 10 Pro

Version 20H2, build: 19042.746

Front end development environment: PyCharm

Community Edition 2020.3.1

Database software: MySQL Shell 8.0

Server host: smartASP.net

Documentation: Canva

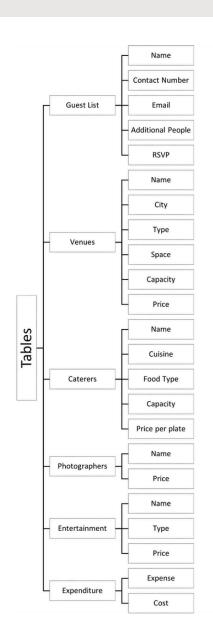
HARDWARE USED:

Processor: Intel(R) Pentium(R) CPU G640 @ 2.80GHz

Other computer peripherals: Keyboard, mouse

System type: 64-bit operating system

Installed RAM: 8.00 GB



TASK 1

Create the guest list by getting input (name, email, etc.) from the user

TASK 2

Calculate the total number of guests based on the RSVPs and update the table

TASK 3

Pick the best wedding vendors based on user preferences

TASK 4

Calculate the total expenditure and state if user is within their assigned budget

SOURCE CODE

TASK 1

Assuming the wedding invitations have been sent out, and that the user has received the RSVPs and the details of the number of additional people that each guest is bringing, the table **Guest List** is created. The function that does this is defined as follows:

```
def guestlist():
   # getting input details from the user
   numofinvites = int(input("How many guests are you inviting?"))
   for i in range(0, numofinvites):
       questname = input("Enter the name of the guest")
       questenail = input("Enter the quest's email")
       questnum = int(input("Enter the quest's contact number"))
       guestRSVP = input("Is the guest attending? Enter 'yes' or 'no'")
       # validation check for those who aren't attending
       if questRSVP == "no":
          addpeople = 0
       else:
         addpeople = int(input("Enter the number of additional people this guest is bringing"))
       # adding the records into the table
       guestvalues = "insert into guestlist (Name, Number, RSVP, Additional_People,Email) \
                 values ('{}',{},'{},'{}')".format(guestname, guestnum, guestRSVP, addpeople, guestemail)
       print(guestvalues)
       cursor.execute(questvalues)
       mycon.commit()
   # printing the records for convenience
   cursor.execute("select * from questlist")
   data = cursor.fetchall()
   print("Guest list successfully updated!")
   details = input("Do you want to see the guest list? Enter 'y' or 'n'")
   if details == "y":
      for row in data:
         print(row)
```

The table Guest List is created as shown:

+		+	++	+
Field	Type	Null	Key	Default Extra
Name Number Email RSVP Food_Preference Additional People	varchar(50) int varchar(50) varchar(3) varchar(20) int	NO NO YES YES YES	PRI	NULL NULL NULL Yes NULL
6 rows in set (0.2762			++	

Name	Number	Email	RSVP	Food_Preference	Additional_People
Sheila	566107723	sheilazazz@gmail.com	yes	Non-vegetarian	2
Tara	657887653	taramusich@outlook.com	yes	Non-vegetarian	1
Troye	677512210	troyesivan@outlook.com	no	Non-vegetarian	0
Jess	678994516	jessstamos@gmail.com	no	Non-vegetarian	0
Rose	700981233	rosemeghan@gmail.com	yes	Vegetarian	2
John	766564532	johnpierre@gmail.com	no	Non-vegetarian	0
Siddarth	784107533	siddarthsundar@gmail.com	yes	Non-vegetarian	0
Kyra	786767564	kyrapatel@gmail.com	yes	Non-vegetarian	0
David	787865465	davidjoe@gmail.com	no	Non-vegetarian	0
Carlos	788091132	carlosrodriguez@gmail.com	yes	Vegetarian	2
Mike	788091232	mikeross@gmail.com	yes	Non-vegetarian	2
Grey	788675432	gerychance@outlook.com	no	Non-vegetarian	0
Raj	788833510	rajmagesh@gmail.com	yes	Vegetarian	4
Ari	788865102	arilauv@gmail.com	no	Vegetarian	0
Meena	788866710	smeena@gmail.com	yes	Non-vegetarian	4
Kara	788893220	karadanvers@gmail.com	yes	Non-vegetarian] 3
Trish	788909122	trishdelarosa@outlook.com	yes	Non-vegetarian] 3
Charlie	788987432	charliert@outlook.com	yes	Vegetarian	4
Felicity	800765321	felicitysmoaks@outlook.com	no	Non-vegetarian	0
Alex	877608221	alexjohn@gmail.com	yes	Vegetarian	2
Julia	877654432	juliamichaels@outlook.com	no	Non-vegetarian	0
Gowri	877786544	gowrirv@gmail.com	yes	Non-vegetarian	1
Camila	878897656	camilamendes@gmail.com	yes	Vegetarian	2
Harvey	889011524	harveyspecter@outlook.com	yes	Non-vegetarian	2
Maya	893900624	mayavarsh@gmail.com	yes	Non-vegetarian	1
Ross	899893321	rosslynch@gmail.com	yes	Vegetarian] 3
Gman	899897610	kgman@microsoft.com	yes	Non-vegetarian] 3
Alessia	900766321	alessiacara@gmail.com	yes	Vegetarian	j 2 j
Calum	900787811	calumworthy@gmail.com	yes	Vegetarian	2
Oliver	988854461	oliverqueen@gmail.com	no	Non-vegetarian	0
Yusuf	900874332	yusufahmed@gmail.com	no	Non-vegetarian	0
Chloe	988876671	chloedecker@gmail.com	yes	Vegetarian] 2
Laura	900876761	lauramarano@outlook.com	yes	Non-vegetarian] 3
Nina	907765221	niniroberts@gmail.com	yes	Non-vegetarian] 3
Meghan	988871123	meghanrienks@outlook.com	yes	Non-vegetarian	ј з ј
Ricky	908876123	rickybowen@hotmail.com	yes	Vegetarian	2
Alice	988876523	alicemain@microsoft.com	yes	Vegetarian] 3 [
Jay	984107334	jayquellin@outlook.com	yes	Non-vegetarian	2
Rhea	987787875	rheanair@gmail.com	no	Vegetarian	j 9 j
Lily	987878654	lilymarston@gmail.com	yes	Non-vegetarian	1

TASK 2

Now that we have a record of all the guests and their details, we have to calculate the total number of people that are confirmed to attend. This involves the adding the number of invitees on the guest list who responded with a 'yes' when asked to RSVP, and the number of additional people that each guest is bringing (if any). The function that does this is defined as follows:

```
# function2
def totalguests():
   # counting the total number of people who responded with "yes"
   cursor.execute("select count(*) from guestlist where RSVP = 'yes'")
    gyes = cursor.fetchall()
    guestyesnum = int(''.join(map(str, gyes[0])))
    print("The number of invitees who responded with 'yes' is", questyesnum)
    # counting the total number of additional quests
    cursor.execute("select sum(additional_people) from guestlist")
    addppl = cursor.fetchall()
    addpplnum = int(''.join(map(str, addppl[0])))
    print("The number of additional quests is", addpplnum)
    # counting the total number of guests
    total_guests = guestyesnum + addpplnum
    print("The total number of attendees is", total_quests)
    # updating the table - deleting the records of those guests who aren't attending
    cursor.execute("delete from questlist where RSVP = 'no'")
    cursor.execute("select * from guestlist")
    confirmedquestlist = cursor.fetchall()
    details = input("Do you want to see the updated quest list? Enter 'y' or 'n'")
    if details == 'y':
       for row in confirmedguestlist:
           print(row)
    return questyesnum, total_quests
```

Once the total number of guests has been calculated, the table is updated - the records of those who aren't attending are delete as shown:

Sheila	Name	Number	Email	RSVP	Food_Preference	Additional_People
Rose	Sheila	566107723	sheilazazz@gmail.com	yes	Non-vegetarian	2
Siddarth 78419753	Tara	657887653		yes	Non-vegetarian	1
Syra	Rose	700981233		yes	Vegetarian	2
Carlos 788891132 Carlosrodríguez@gmail.com yes Vegetarian Mike 78891232 mikeross@gmail.com yes Non-vegetarian Raj 788833510 rajmagesh@gmail.com yes Vegetarian Meena 788863220 karadanvers@gmail.com yes Non-vegetarian Kara 788893220 karadanvers@gmail.com yes Non-vegetarian Charlier 188894321 charliert@outlook.com yes Vegetarian Alex 877680221 alexjohn@gmail.com yes Vegetarian Alex 877680221 alexjohn@gmail.com yes Vegetarian Gouri 87789545 gourinv@gmail.com yes Vegetarian Harvey 889911524 harveyspecter@outlook.com yes Non-vegetarian Maya 839390624 mayavarsh@gmail.com yes Vegetarian Ross 899897619 kgman@mail.com yes Vegetarian Alessia 908766321 alessiacara@gmail.com yes Vegetarian Ca	Siddarth			yes	Non-vegetarian	0
Mike	Kyra			yes		8
Raj 788833510 rajmagesh@mail.com yes Vegetarian Meena 788893220 karadanvers@gmail.com yes Non-vegetarian Trish 788993220 karadanvers@gmail.com yes Non-vegetarian Charlier 788993221 latsindelarosa@outlook.com yes Vegetarian Charlier 877608221 alexjohn@gmail.com yes Vegetarian Gowri 87780544 gowrinv@gmail.com yes Non-vegetarian Camila 878997656 camilamendes@gmail.com yes Non-vegetarian Maya 893906624 mayavarshe@mail.com yes Non-vegetarian Maya 893990624 mayavarshe@mail.com yes Non-vegetarian Ross 89989321 rosslynch@gmail.com yes Vegetarian Ross 89989321 rosslynch@gmail.com yes Vegetarian Alessia 906766321 alessiacara@gmail.com yes Vegetarian Chloe 906876611 clumorthy@gmail.com yes Vegetarian	Carlos	788091132		yes	Vegetarian	2
Meena 788866710 smeen@@gmail.com yes Non-vegetarian Kara 788890212 karadanvers@gmail.com yes Non-vegetarian Trish 78890212 trishdelarosa@outlook.com yes Non-vegetarian Charlie 788987432 charliert@outlook.com yes Vegetarian Alex 877686221 alexjohn@gmail.com yes Non-vegetarian Gowri 877897654 gowrirv@gmail.com yes Non-vegetarian Camila 878897655 camilameds@gmail.com yes Non-vegetarian Maya 8939801524 harveyspecter@outlook.com yes Non-vegetarian Maya 8939893321 rosslynch@gmail.com yes Non-vegetarian Alessia 90876521 alesia-ara@gmail.com yes Vegetarian Alessia 90876761 claumoorthy@gmail.com yes Vegetarian Nina 90876761 lauramarano@outlook.com yes Non-vegetarian Nina 908767621 laicesaiani@microsoft.com yes	Mike	788091232		yes	Non-vegetarian	2
Xara	Raj	788833510		yes	Vegetarian	4
Trish	Meena	788866710		yes	Non-vegetarian	4
Charlie 788987432 charliert@outlook.com yes Vegetarian Alex 877608221 alexjohn@gmail.com yes Vegetarian Gowri 87780544 gowiriv@gmail.com yes Non-vegetarian Camila 878897655 camilamendes@gmail.com yes Vegetarian Harvey 88901524 harveyspecter@outlook.com yes Non-vegetarian Maya 893090624 mayavarsh@gmail.com yes Non-vegetarian Ross 899893321 rosslynch@gmail.com yes Vegetarian Gman 899897610 kgman@microsoft.com yes Vegetarian Alessia 906766321 alessiacara@gmail.com yes Vegetarian Chloe 906876671 calumeantrhy@gmail.com yes Vegetarian Chloe 906876671 lauramarano@outlook.com yes Non-vegetarian Nina 907765221 niniroberts@gmail.com yes Non-vegetarian Nigkey 908876123 rickybowen@hotmail.com yes Vegetarian <td>Kara</td> <td>788893220</td> <td>karadanvers@gmail.com</td> <td>yes</td> <td>Non-vegetarian</td> <td>3</td>	Kara	788893220	karadanvers@gmail.com	yes	Non-vegetarian	3
Alex 877680221 alexjohn@gmail.com yes Vegetarian Gowri 87786544 gowrinv@gmail.com yes Non-vegetarian 87786545 camilamendes@gmail.com yes Vegetarian 9878656 camilamendes@gmail.com yes Vegetarian 9878656 camilamendes@gmail.com yes Non-vegetarian 9878656 yes Non-vegetarian 9878652 yes Non-vegetarian 98786652 yes Non-vegetarian 98786652 yes Non-vegetarian 98786652 yes Non-vegetarian 98786654 yes Non-vegetarian 987666475 yes Non-vegetarian 9876646475 yes Non-vegetarian 987666475 yes Non-vegetarian 9876646475 yes Non-vegetarian 9876646475 yes Non-vegetarian 9876646475 yes Non-vegetarian 98766464475 yes Non-vegetarian 98766464475 yes Non-vegetarian 98766464475 yes	Trish	788909122	trishdelarosa@outlook.com	yes	Non-vegetarian	3
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Harvey	Gowri	877786544	gowrirv@gmail.com	yes	Non-vegetarian	1
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Laura 900876761 lauramarano@outlook.com yes Non-vegetarian Nina 97765221 ininiroberts@gmail.com yes Non-vegetarian 908871312 niniroberts@gmail.com yes Non-vegetarian 908871321 rickybowen@hothaail.com yes Vegetarian Alice 908876123 rickybowen@hothaail.com yes Vegetarian Alice 908876523 alicemain@microsoft.com yes Vegetarian Alice 908876523 laicemain@microsoft.com yes NULL 1008 Naya 917608251 mayajay@gmail.com yes NULL 1019 97878656 iliymarston@gmail.com yes NULL 1019 97878656 iliymarston@gmail.com yes Null 1019 Naya 917608251 rohithkanna@gmail.com yes Non-vegetarian Nake 988787651 rohithkanna@gmail.com yes Non-vegetarian Nake 988787654 jakeryan@gmail.com yes Non-vegetarian Navelia 988829102 aureliawest@gmail.com yes Vegetarian Navelia 989876765 shawnmendes@gmail.com yes Non-vegetarian Ally 990876122 allydawson@gmail.com yes Vegetarian Navelia 99887162 austimoon@gmail.com yes Vegetarian	Calum	900787811	calumworthy@gmail.com	yes	Vegetarian	2
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Meghan 968875123 meghanrienki@outlook.com ýes Non-vegetarian Ricky 968876123 rickybowen@hotmail.com yes Vegetarian Alice 968876523 alicemain@microsoft.com yes Vegetarian Maya 917669251 mayayajay@mail.com yes NULL Maya 917660475 mayavarsh@gmail.com yes NULL Lily 98787651 lilymarston@gmail.com yes Non-vegetarian Rohith 988787651 rohitknana@gmail.com yes Vegetarian Jake 988787654 jakeryan@gmail.com yes Non-vegetarian Aurelia 988829102 aureliawest@gmail.com yes Non-vegetarian Ally 99867652 shawnmendes@gmail.com yes Non-vegetarian Ally 998676122 allydawson@gmail.com yes Vegetarian Alstin 998871621 austinnoon@gmail.com yes Vegetarian	Laura	900876761	lauramarano@outlook.com	yes	Non-vegetarian	3
Ricky 908876123 rickybowen@hotmail.com yes Vegetarian Alice 908876523 alicemain@microsoft.com yes Vegetarian Maya 917080251 mayajay@gmail.com yes NULL Maya 91606475 mayayavarsh@gmail.com yes NULL Lily 98787654 lilymarston@gmail.com yes Non-vegetarian Rohith 988787651 rohithkanna@gmail.com yes Vegetarian Jake 988787654 jakeryan@gmail.com yes Non-vegetarian Aurelia 988829102 aurelia/suesti@gmail.com yes Vegetarian Ally 990076122 allydawson@gmail.com yes Vegetarian Austin 990871612 austinoon@gmail.com yes Vegetarian	Nina	907765221	niniroberts@gmail.com	yes	Non-vegetarian] 3
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Rohith 988787651 rohithkanna@gmail.com yes Vegetarian Jake 988787654 jakeryan@gmail.com yes Non-vegetarian Aurelia 988829102 aureliawest@gmail.com yes Vegetarian Shawn 988876765 shawnmendes@gmail.com yes Non-vegetarian Ally 990876122 allydawson@gmail.com yes Non-vegetarian Austin 990871162 austinmoon@gmail.com yes Vegetarian Austin 990871162 austinmoon@gmail.com yes Vegetarian	Maya	917600475	mayavarsh@gmail.com	yes	NULL	j 3
Jake 988787654 jakeryan@gmail.com yes Non-vegetarian Aurelia 988829102 aureliawest@gmail.com yes Vegetarian Shawn 989876765 shawnmendes@gmail.com yes Non-vegetarian Ally 990876122 allydawson@gmail.com yes Vegetarian Austin 990871102 austimoon@gmail.com yes Vegetarian	Lily	987878654	lilymarston@gmail.com	yes	Non-vegetarian	j 1
Aurelia 988829102 aureliawest@gmail.com yes Vegetarian Shawn 988876765 shawnmendes@gmail.com yes Non-vegetarian Ally 990076122 allydawson@gmail.com yes Vegetarian Austin 990871162 austinmoon@gmail.com yes Vegetarian	Rohith	988787651	rohithkanna@gmail.com	yes	Vegetarian	1
Aurelia 988829102 aureliawest@gmail.com yes Vegetarian Shawn 988876765 shawnmendes@gmail.com yes Non-vegetarian Ally 990076122 allydawson@gmail.com yes Vegetarian Austin 990871162 austinmoon@gmail.com yes Vegetarian	Jake	988787654	jakeryan@gmail.com		Non-vegetarian	3
Shawn 980876765 shawnmendes@mail.com yes Non-vegetarian Ally 990876122 allydawson@gmail.com yes Vegetarian Austin 990871162 austinmoon@gmail.com yes Vegetarian	Aurelia	988829102		yes	Vegetarian	2
Ally 990076122 allydaxson@gmail.com yes Vegetarian Austin 990871162 austinmoon@gmail.com yes Vegetarian	Shawn	989876765		yes	Non-vegetarian	1
Austin 990871162 austinmoon@gmail.com yes Vegetarian	Ally	990076122				3
Pachal 009979163 pachaladamcGamail com vac Vacatagian		990871162				2
Nacher 2300/0102 Lacieradamsmani.com Ae2 AeKeralian	Rachel	990878162	racheladams@gmail.com	ves	Vegetarian	2

Thus, in tasks 1 and 2, we have successfully **updated a table** (that is, inserted values into it), and **deleted records from a table** (eliminated redundant data) by integrating Python with MySQL.

TASK 3

In task 3, we define functions to pick the best venue, caterer, photographer, and entertainer respectively. To do this, we first created tables that stored data of different companies for each expense. For instance, we created the table **Caterers** and updated it to include the details of 10 catering crews that the user could choose from. Similarly, details of 10 venues, studios, and entertainers were updated into their respective tables . Thus, we divide task 3 into 4 separate functions:

- 1. bestvenue()
- 2. bestcaterer()
- 3. beststudio()
- 4. bestentertainer()

where each function has the same purpose - to pick the best vendor and simultaneously store their respective costs into variables that will be used in the final function when calculating the total expenditure.

VENUES

As aforementioned, tables were created to store details of various vendors for each expense. The table **Venues** includes details of the:

- 1. name of the venue
- 2. city it's located in
- 3. type of venue (hotel/park/resort etc.)
- 4. space (indoors/outdoors)
- 5. capacity how many people it can host
- 6. price of the space

+ Field	Туре	 Null Key	Default Extra
Name City Type Space Capacity Price	varchar(30) varchar(30) varchar(30) varchar(30) int varchar(30)	NO	NULL NULL NULL NULL NULL

Name	City	Туре	Space	Capacity	Price
Radisson Pink	Chennai	Banquet Hall	Indoor	150	20L
Willow Hills	Bangalore	Hotel	Indoor	100	30L
The Boardwalk	Bangalore	Resort	Outdoor	50	10L
Malt & Cigar	Bangalore	Resto Lounge	Outdoor	75	5L
Aurelia's Gardenia	Chennai	Park with Gazebo	Outdoor	120	10L
The Pergola	Bangalore	Park with Gazebo	Outdoor	125	25L
Westend Inn	Chennai	Hotel	Indoor	150	40L
Luxuria Hall	Bangalore	Banquet Hall	Indoor	200	5L
The Lilac Orchid	Chennai	Resto Lounge	Outdoor	100	15L
Sterling Riviere	Chennai	Resort	Outdoor	50	10L

VENUES

With the details of the venues all ready, we define a function to get inputs from the user in order to pick the best venue:

- Capacity filter: Based on the total number of guests (as calculated in task 2), we automatically filter out the options and present to the user only those venues that can accommodate that number.
- Location filter: We ask the user for their preferred location and narrow down the possible venues further
- Type filter: The last filter is the type. We ask the user to pick a type and present to them the final venue
- **Confirmation step**: The user can either confirm, or choose to restart the process.
- **Storing cost**: The cost of the venue that's been confirmed is stored into a variable (*venue_cost*)

In our code, we use validation checks to ensure that inputs given to the program are as accurate as possible. We also employ the *format()* and *fetchall()* functions as shown.

The bestvenue() function:

function3

```
def bestvenue(total_guests):
   priority = 1
   while priority == 1:
       # filtering out options based on capacity
       cursor.execute("select name from venues where capacity>%s" % total_guests)
       data = cursor.fetchall()
       available_venue = ()
       for row in data:
           available_venue += row
       print("Based on the total number of guests, these venues are available to you:", (list(available_venue)))
       # filtering out a venue based on location
       city = int(input("Enter which city you would like to have the wedding in. "
                         "\n Enter '1' for Chennai."
                        "\n Enter '2' for Bangalore"))
       if city == 1:
           city_string = "Chennai"
       elif city == 2:
           city_string = "Bangalore"
       # validation check
       if city != 1 and city != 2:
           print("Please check again."
                 "\n Enter '1' for Chennai"
                 "\n Enter '2' for Bangalore")
       elif city == 1:
           y = 'Chennai'
       elif city == 2:
         y = 'Bangalore'
       query = "select name from venues where city='" + y + "' and capacity>{}"
       cursor.execute(query.format(total_guests))
       data = cursor.fetchall()
       chennai_venues = ()
       for row in data:
           chennai_venues += row
       print("Your options are now", list((chennai_venues)))
       # filtering venue based on type
        type = int(input("Do you want an hotel, a banquet hall, a resto-lounge, or a resort? Enter:"
                        "\n 1: Hotel"
                        "\n 2: Banquet Hall"
                        "\n 3: Resto-Lounge"
                        "\n 4: Resort"
                        "\n 5: Park (Gazebo)"))
       # validation check
        if type != 1 and type != 2 and type != 3 and type != 4 and type != 5:
           int(input("Please check again. Enter:"
                     "\n 1: Hotel"
                     "\n 2: Banquet Hall"
                     "\n 3: Resto-Lounge"
                     "\n 4: Resort"
                     "\n 5: Park (Gazebo)"))
```

```
elif type == 1:
   x = 'hotel'
elif type == 2:
   x = 'banquet hall'
elif type == 3:
    x = 'resto lounge'
elif type == 4:
    x = 'resort'
elif type == 5:
   x = 'park with gazebo'
query1 = "select name, space, price from venues where type='" + x + "' and city='{}' and capacity>{}"
cursor.execute(query1.format(city_string, total_guests))
data = cursor.fetchall()
if len(data) == 0:
    print("There are no venues available. Restarting process.")
for row in data:
    print("Details of the only available venue:", row)
    confirm = input("Pick venue? Enter 'y' or 'n'")
    if confirm == 'y':
        venue = row[8]
        print("The venue you have picked is", venue,
              "\n It costs", row[2], "where L is Lakhs",
             "\n It is an", row[1], "space")
        str1 = str(row[2])
        if str1[1].isdigit():
            str2 = str1[0] + str1[1]
            venue_cost = int(str2) * 100000
           print("The cost for the venue amounts to", venue_cost, "rupees")
          return (venue_cost)
        quit()
    else:
    print("Restarting process.")
```

Thus, the first expense is settled.

CATERERS

Similarly, the table **Caterers** includes details of the:

- 1. name of the catering crew
- 2. cuisine (Indian/Chinese, Italian etc.)
- 3.food type (vegetarian/non vegetarian)
- 4. capacity how many people can be served
- 5. price per plate

Field	Type	Null	Key	Default	Extra
Name Cuisine Food_Type Capacity Price_per_plate	varchar(50) varchar(50) varchar(50) int int	YES YES YES NO NO		NULL NULL NULL NULL	

Name	Cuisine	Food_Type	Capacity	Price_per_plate
	+	+		
Red Box	Chinese	Non veg	200	500
The Tandoor Oven	Indian	Non veg	150	800
Asian Tales	Pan-asian	Non veg	125	600
Mexican Grill	Mexican	Non veg	100	400
Pasta la Vista	Italian	Veg	150	700
Nasi & Mee	Singaporean	Veg	115	1000
Paix, Amour & Bonheur	French	Veg	115	1000
Cherry wine & Sake	Japanese	Non veg	130	750
The Curry Kitchen	Indian	Non veg	130	850
Pho Kit	Thai	Non veg	140	650

CATERERS

With the details of the caterers all ready, we define a function to get inputs from the user in order to pick the best catering crew:

- Capacity filter: Based on the total number of guests (as calculated in task 2), we automatically filter out the options and present to the user only those catering crews that can serve that many people
- Food Preference filter: Based on the food preferences (whether they are vegetarian or non vegetarian) of each guest as stored in the guest list table, we automatically filter out the caterers and present to the user those crews that accommodate the majority of guests.
- Cuisine filter: The last filter is the cuisine. We ask the user for their preference and narrow down options.
- **Confirmation step:** The user can either confirm, or choose to restart the process.
- Storing cost: The cost of the caterer that's been confirmed is stored into a variable (caterer_cost)

The bestcaterer() function:

```
# function4:
def bestcaterer(total_guests, guestyesnum):
    priority = 2
    mhile priority == 2:
       # filtering out options based on capacity
       cursor.execute("select name from caterers where capacity>%s" % total_guests)
        data = cursor.fetchall()
        available_caterers = ()
        for row in data:
            available_caterers += rom
        print("Based on the total number of guests, these venues are available to you:", (list(available_caterers)))
       # filtering out options based on food_preference
        cursor.execute("select count(food_preference) from guestlist where food_preference='non-vegetarian'")
        num = str(cursor.fetchall()[8])
        num1 = int((num[1] + num[2]))
        num2 = guestyesnum / 2
        if num1 > num2:
           food_type = 'non veg'
           cursor.execute("select name from caterers where food_type = 'non veg' and capacity>%s" % total_quests)
           data = cursor.fetchall()
           nonveg_caterers = ()
            for row in data:
                nonveg_caterers += row
            print("The majority of your guests prefer", food_type, "food")
           print("Based on this, your options are now:", list(nonveg_caterers))
       elif num1 < num2:
           food_type = 'veg'
           cursor.execute("select name from caterors where food_type = 'veg' and capacity>%s" % total_guests)
           data = cursor.fetchall()
            veg_caterers = ()
            for row in data:
               veg_caterers += row
           print("The majority of your guests prefer", food_type, "food")
           print("Based on the majority of people's food preference, your options are now:", list(veg_caterers))
       # filtering out options based on cuisine:
       cuisine = int(input("Pick a cuisine. You can choose from:"
                            "\n 1: Chinese"
                            "\n 2: Indian"
                            "\n 3: Pan-asian"
                           "\n 4: Mexican"
                            "\n 5: Italian"
                           "\n 6: Singaporean"
                            "\n 7: Japanese"
                           "\n 8: Thai"
                           "\n 9: French"))
```

```
if cuisine == 1:
   x = 'chinese'
elif cuisine == 2:
   v = 'indian'
elif cuisine == 3:
   x = 'pan-asian'
elif cuisine == 4:
   x = 'mexican'
elif cuisine == 5:
   x = 'italian'
elif cuisine == 6:
   x = 'singaporean'
elif cuisine == 7:
   x = 'japanese'
elif cuisine == 8:
   x = 'thai'
elif cuisine == 9:
  x = 'french'
query = "select name,price_per_plate from caterers where cuisine = '" + x + "' and capacity>{} and food_type='{}'."
cursor.execute(query.format(total_guests, food_type))
data = cursor.fetchall()
if len(data) == 0:
   print("There are no caterers that match your preferences available. Restarting process.")
for row in data:
    print("Details of the caterer(s) that satisfy your criteria:", row)
    confirm = input("Pick venue? Enter 'y' or 'n'")
    if confirm == 'y':
        caterer = row[0]
        print(row)
        print("The caterer you have picked is", caterer.
              "\n The cost per plate is", row[1], "rupees.",
             "\n It serves", x, "food.")
        caterer_cost = int(row[1]) * total_guests
        print("The catering cost amounts to", caterer_cost, "rupees")
        return caterer_cost
        quit()
    else:
    print("Restarting process.")
```

Thus, the second expense is settled.

STUDIOS

Similarly, the table **Photographers** includes details of the:

- 1. name of the studio
- 2. rating out of 5
- 3. price

+ Field	Type	Null	Key	Default	Extra
Name Price Rating	varchar(50) varchar(10) varchar(5)	NO		NULL NULL NULL	

+ Name +	Price	+ Rating
Maya's Studio Faded Polaroids Portraits by Greyson Chance Photos & Frames Videos by Vivian Photography by Amelie High Definitions Pixels Lite Colours of the Wind CamerArt	40000 70000 40000 45000 45000 65000 50000 60000 35000	3.5 5.0 3.5 4.0 4.0 4.5 4.5 4.5 4.5
+	+	++

STUDIOS

With the details of the photographers all ready, we define a function to get inputs from the user in order to pick the best studio:

- Rating filter: We list all of the studios. Then, we ask the user to pick a
 rating. Based on whether they're okay with a studio that's rated a
 3.5/5.0 or whether they specifically want one that's been rated
 higher, we list the available studios.
- **Confirmation step**: The available studios are presented in a list to the user. They can either confirm, or choose to restart the process.
- **Storing cost**: The cost of the studio that's been confirmed is stored into a variable (*photographer_cost*)

The beststudio() function:

```
# function5:
def beststudio():
    priority = 3
    while priority == 3:
        # listing out the studios
        cursor.execute("select name from photographers")
        data = cursor.fetchall()
        available_photographers = ()
        for row in data:
            available_photographers += row
        print("The following studios are available:", list(available_photographers))
        # filtering out options based on the rating
        rating = int(input("All of the studios listed have a rating of 3.5 and above out of 5. Pick a rating:"
                           "\n 1: = 3.5"
                           "\n 2: = 4.0"
                           "\n 3: = 4.5"
                           "\n 4: = 5.8"))
        if rating == 1:
           x = '3.5'
        elif rating == 2:
           x = '4.0'
        elif rating == 3:
           x = '4.5'
        elif rating == 4:
        query = "select name, price from photographers where rating ='" + x + "'"
        cursor.execute(query.format(rating))
        data = cursor.fetchall()
        range_studios = []
       price_studios = []
       for row in data:
           range_studios.append(row[0])
            price_studios.append(row[1])
        print("Your options with a", x, "rating are:", range_studios, "and they cost", price_studios, "respectively")
       studio = int(input("Pick a studio. Enter the corresponding number."))
        choice = range_studios[studio - 1]
        print("You've picked", choice)
        confirm = input("Confirm? Enter 'y' or 'n'")
       if confirm == 'y':
            print("The studio you are hiring is", choice)
            print("It costs", price_studios[studio - 1], "rupees")
            photographer_cost = price_studios[studio - 1]
            return photographer_cost
            quit()
           print("Repeating process.")
```

Thus, the third expense is settled.

ENTERTAINMENT

Similarly, the table **Entertainment** includes details of the:

- 1. name of the entertainer
- 2. type of the entertainment (live band/comedian etc.)
- 3. price of the entertainment

++ Field Ty	/pe	Null	Key	Default	Extra
	archar(50) archar(50) at			NULL NULL NULL	

Soulful Raga	
Bounce in your Step Games 4	60000 60000 60000 60000 50000 50000 50000

ENTERTAINMENT

With the details of the entertainers all ready, we define a function to get inputs from the user in order to pick the best entertainer:

- Type filter: We list the types of entertainment that are available. The user enters an option and we present to them the available entertainers based on their input.
- Confirmation step: The available entertainers are presented in a list to the user. They can either confirm, or choose to restart the process.
- **Storing cost**: The cost of the studio that's been confirmed is stored into a variable (*entertainment cost*)

The bestentertainer() function:

```
# functionó:
def bestentertainer():
    priority = 4
    while priority == 4:
        # listing out the entertainment
        cursor.execute("select name from entertainment")
        data = cursor.fetchall()
        available_entertainers = ()
        for row in data:
           available_entertainers += row
        print("The following entertainers are available:", list(available_entertainers))
        # filtering out options based on the rating
        e_type = int(input("Which type of entertainment are you looking for? Enter:"
                           "\n 1: Live Band"
                           "\n 2: Solo Artist"
                           "\n 3: Comedian"
                           "\n 4: Games"
                           "\n 5: Magician"))
        if e_type == 1:
           x = 'Live Band'
        elif e_type == 2:
           x = 'Solo Artist'
        elif e_type == 3:
           x = 'Comedian'
        elif e_type == 4:
           x = 'Games'
        elif e_type == 5:
           x = 'Magician'
        query = "select name, price from entertainment where type ="" + x + """
        cursor.execute(query)
        data = cursor.fetchall()
        entertainment_names = []
        entertainment_prices = []
       for row in list(data):
           entertainment_names.append(row[8])
           entertainment_prices.append(row[1])
        print("Your", x, "options are:", entertainment_names, "and they cost", entertainment_prices,
             "rupees respectively")
        entertainer = int(input("Pick an entertainer. Enter the corresponding number."))
        choice = entertainment_names[entertainer - 1]
        print("You've picked", choice)
        confirm = input("Confirm? Enter 'v' or 'n'")
        if confirm == 'y':
           print("The entertainment you are hiring is", choice)
            print("It costs", entertainment_prices[entertainer - 1], "rupees")
            entertainment_cost = entertainment_prices[entertainer - 1]
            return entertainment_cost
            quit()
        else:
       print("Repeating process.")
```

TASK 4

With the vendors confirmed, and the costs of each expense stored in their respective variables, all that's left to do is to add them up and calculate the total expenditure. In addition, the individual expenses are updated into the **Expenditure** table. Finally, we'll be subtracting the total expenditure from the assigned budget:

```
def expenditure(budget, venue_cost, caterer_cost, photographer_cost, entertainment_cost):
    # updating the expenditure table by inserting the expenses
    for y in ["venue", "caterer", "photographer", "entertainment"]:
        if v == "venue":
           x = venue_cost
        elif y == "caterer":
           x = caterer_cost
        elif y == "photographer":
           x = photographer_cost
        elif y == "entertainment":
          x = entertainment_cost
        expenditure_values = "update expenditure set cost = '" + str(\bar{x}) + "' where expense = '" + y + "'"
        print(expenditure_values)
       cursor.execute(expenditure_values)
        mycon.commit()
    cursor.execute("select sum(cost) from expenditure")
    data = cursor.fetchall()
    total_expenditure = int(''.join(map(str, data[8])))
    print("The total expenditure amounts to", total_expenditure, "rupees")
    balance = budget - total_expenditure
   if balance > 0:
        print("You are well within your budget with a balance of", balance,
              "rupees. Congratulations on the wedding!")
        quit()
   elif balance == 0:
      print("The total expenditure of the wedding amounted to the same value as your budget.")
       quit()
    elif balance < 8:
      print("You have exceeded your budget by", (-1 * balance), "rupees.")
```

TASK 4

the **Expenditure** table before the program was run:

+ Expense	Cost
Venue	0
Caterer	0
Photographer	0
Entertainment	0

the **Expenditure** table after the vendors have been picked:

+	++
Expense	Cost
+	++
Venue	4000000
Caterer	82600
Photographer	45000
Entertainment	100000
++	

MAIN PROGRAM

The main program that calls all the functions is as shown:

```
# mainprogram

print("Welcome to your one-stop wedding planning service! First, we'll be needing your guest list.")
guestlist()

print("We're now going to calculate how many people are coming to the wedding.")
guestyesnum, total_guests = totalguests()
budget = int(input("Perfect. Now, please enter a budget for the wedding."))

print("Time to pick a venue")
venue_cost = bestvenue(total_guests)

print("Moving on to hiring a caterer")
caterer_cost = bestcaterer(total_guests, guestyesnum)

print("The next step is to hire a photographer")
photographer_cost = beststudio()

print("Finally - pick a form of entertainment")
entertainment_cost = bestentertainer()

print("Cool. Calculating your total expenditure.")
expenditure(budget, venue_cost, caterer_cost, photographer_cost, entertainment_cost)
```

OUTPUT

creating the guest list:

```
Successfully connected to MySQL Database
Melcome to your one-stop wedding planning service! First, me'll be needing your guest list.

How many guests are you inviting?!

Chief the name of the guestMoya

Enter the guest's eaallamgaversh@mail.com

Enter the guest's eaallamgaversh@mail.com

Enter the guest's contact number917000475

Is the guest attending? Enter 'yes' or 'no'yes

Enter the number of additional people this guest is bringing3

Insert into guestlist (Name, Mumber, RSPP, Additional_People,Email) values ('Maya',917000475, 'yes',3, 'mayavarsh@gmail.com')

Guest list successfully updated!

Do you mant to see the guest list? Enter 'y' or 'n'n

Do you mant to see the guest list? Enter 'y' or 'n'n
```

calculating the total number of guests:

```
We're now going to calculate how many people are coming to the wedding. The number of invitees who responded with 'yes' is 37 The number of additional guests is 81 The total number of attendees is 118 Do you want to see the updated guest list? Enter 'y' or 'n'n Perfect. Now, please enter a budget for the wedding.85000000
```

picking the best venue:

Time to pick a venue

```
Based on the total number of quests, these venues are available to you: ["Radisson Pink", "Aurelia's Gardenia", "The Pengala', "Mestend Inn', 'Luxuria Hall']
Enter which city you would like to have the wedding in.
Enter '1' for Chennal.
Enter '2' for Bangalore2
Your options are now ['The Pergola', 'Luxuria Hall']
Do you want an hotel, a banquet hall, a resto-lounge, or a resort? Enter:
1: Motel
2: Banquet Hall
3: Resto-Lounge
 5: Park (Gazebo)1
There are no venues available. Restarting process.
Based on the total number of quests. These venues are available to you: ['Radisson Pink', "Aurelia's Cardenia', 'The Percola', 'Westend Inn', 'iuvuria Hall']
Enter which city you would like to have the wedding in.
Enter '1' for Chennai.
Enter '2' for Bangalore2
Your options are now ['Radisson Pink', "Aurelia's Gardenia", 'Westend Inn']
Do you want an hotel, a banquet hall, a resto-lounge, or a resort? Enter:
2: Banquet Hall
3: Resto-Lounce
4: Report
 5: Park (Gazebo)1
Details of the only available venue: ('Westend Inn', 'Indoor', '40L')
Pick venue? Enter 'y' or 'n'
The venue you have picked is Westend Inn
It costs 40L where L is Lakhs
 It is an Indoor space
The cost for the venue amounts to 4000000 rupees
```

picking a caterer - no options available:

Moving on to hiring a caterer
Based on the total under of quests, these venues are available to you: ['Red Box', 'The Tandoor Oven', 'Asian Tales', 'Pasta la Vista', 'Cherry wine & Sake', 'The Curry Kitchen', 'Pho Kit'

The majority of your quests prefer veg food Based on the majority of people's food preference, your options are now: ['Pasta la Vista']

Pick a cuisine. You can choose from:

1: Chinese 2: Indian

3: Pan-asian

5: Italian

6: Singapores 7: Japanese

8: Thai

There are no caterers that match your preferences available. Restarting process.

picking a caterer - confirming a crew:

Based on the total number of quests, these venoes are available to you: ("Red Boat", "The Tandoor Oven", "Asian Tales", "Pasta ta Vista", "Cherry wine & Sake", "The Corry Witchen", "The Xit The majority of your guests perfor reg Tood
Based on the majority of populer's foot perforance, your options are nos: ("Pasta ta Vista")

Pick a cuisine. You can choose from:

2: Indian

4: Mexican 5: Italian

o: Singaporean

7: Japanese

9: French5 Details of the cateror(s) that satisfy your criteria: ('Pasta la Vista', 700)

Details of the caterer(s) that satisfy your o Pick venue? Enter 'y' or 'n'y ('Pasta la Vista', 700) The caterer you have picked is Pasta la Vista The cost per plate is 700 rupees.

It serves italian food.

picking a studio:

The next step is to hire a photographer

The following studies are available: ["Maya's Studio", 'Faded Polaroids', 'Portraits by Greyson Chance', 'Photos & Frames', 'Videos by Vivian', 'Photography by Amelia', 'Kigh Definitions',

All of the studios listed have a rating of 3.5 and above out of 5. Pick a rating:

Your options with a 4.5 rating are: ['Photography by Amelie', 'High Definitions', 'Pixels Lite'] and they cost ['65000', '50000', '60000'] respectively

Pick a studio. Enter the corresponding number.2 You've picked High Definitions

Confirm? Enter 'y' or 'n'n

The following studies are available: ["Maya"s Studie", 'Faded Polarcids', 'Portraits by Greyson Chance', 'Photos & Frames', 'Videos by Vivian', 'Photography by Amelie', 'Migh Definitions', All of the studies listed have a rating of 3.5 and above out of 5. Pick a rating:

Your options with a 4.0 rating are: ["Photos & Frames', "Videos by Vivian', 'Colours of the Wind'] and they cost ["45000', "45000', "45000'] respectively

Pick a studio. Enter the corresponding number. I You've picked Photos & Frames

Confirm? Enter 'y' or 'n'y The studio you are hiring is Photos & Frames It costs 45000 rugees

picking entertainment::

```
The following entertainers are available: ("Monacle Dase", "Soulful Raps", "Illusions", "Sabrina Carpenter", "Memory Sebastian", "Avertia West", "Mr.Mias", "Trixial Trixia", "Nounce in your mine type of entertial section of the sand 2 - Sois Artist 3 - Sois Artist 4 - Sois Artist 4 - Sois Artist 4 - Sois Artist 4 - Sois Artist 5 - S
```

calculating total expenditure:

```
Cool. Calculating your total expenditure.

update expenditure set cost = '4000000' where expense = 'venue'

update expenditure set cost = '82600' where expense = 'caterer'

update expenditure set cost = '45000' where expense = 'photographer'

update expenditure set cost = '100000' where expense = 'entertainment'

The total expenditure amounts to 4227600 rupees

You are well within your budget with a balance of 80772400 rupees. Congratulations on the wedding!

Process finished with exit code 0
```

Thus, we have successfully:

- 1. created tables
- 2. inserted values into a table
- 3. updated tables
- 4. altered tables
- 5. deleted redundant records from a table
- 6. employed validation checks
- 7. performed basic calculations

using Python and MySQL

USER MANUAL

DOWNIOADING PYTHON

https://www.anaconda.com/products/individual

To avoid having to manually install packages yourself, install Anaconda, and download your preferred Python interpreter (3.0 was used in this project). Create an environment file. Install the MySQL-connector package if needed. Run the code on your python interpreter. We used PyCharm Community Edition.

DOWNLOADING SQL

https://dev.mysql.com/downloads/installer/

From this link, download the MySQL application that suits your needs best (based on your operating system, and processor.) During the installation process, make sure that the Python connector is installed. For this project, we used MySQL Shell 8.0 - this application can be downloaded via the installation wizard if specified.

USER MANUAL

CONNECTING TO THE SERVER

https://www.smarterasp.net/

We stored our database on a free external hosting site. To connect via MySQL shell 8.0, use the following queries:

\c --host=[host] --user=[login ID}--password=[password] \c [user]@[host]

our database password: password1 our database name: db_a6e00e_wedding our database server: mysql5044.site4now.net our user ID: a6e00e_wedding

```
| WySQL | MySQL | MySq
```

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