INTRODUCTION TO DATABASE

SECTION: J

GROUP: 06

PROJECT NAME: Wedding Hall Management System

PRESENTED BY:

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INTRODUCTION

This project Wedding Hall Management System has been developed on MySQL. The main purpose for developing this Wedding Hall Management System is to manage the details of Customer, User, Payment, Booking, Hall. Customers may view the hall at any time and may book any hall as needed. When a user decides to finally book the hall the order information including user name, id, address, and booking instruction is stored in the database securely and payment has been made. This project's objective is to book a hall online.

CASE STUDY

The details of weeding hall Management System is store into hall tables respective with all tables.

Each entity (Customer,User, Payment, booking ,Hall) contains primary key and unique keys will be stored in the database. A customer has c_id,c_add,c_name,c_pass,c_mobile,c_email attributes.

A weeding hall is managed by user. A user has u_id,u_name,u_mobile,u_address and u_email. The entity payment has binded with Hall, booking entities with foreign key. A hall has h_id,h_charge,h_type,h_name,h_desc are stored in database. In payment it has p_date,p_desc,p_id,P_c_id,p_amt and booking has b_id,b_desc,b_type are stored in database. There is one-to-many and one-to-one relationships available among Customer, User, hall. There is another one-to-many and one-to-one relationship between user and payment. There is at least one relationship between payment and booking.

All the entities Payment, Hall are normalized and reduce duplicacy of records. All the above information will be stored in the database of Weeding Hall Management System tables.

ER Diagram
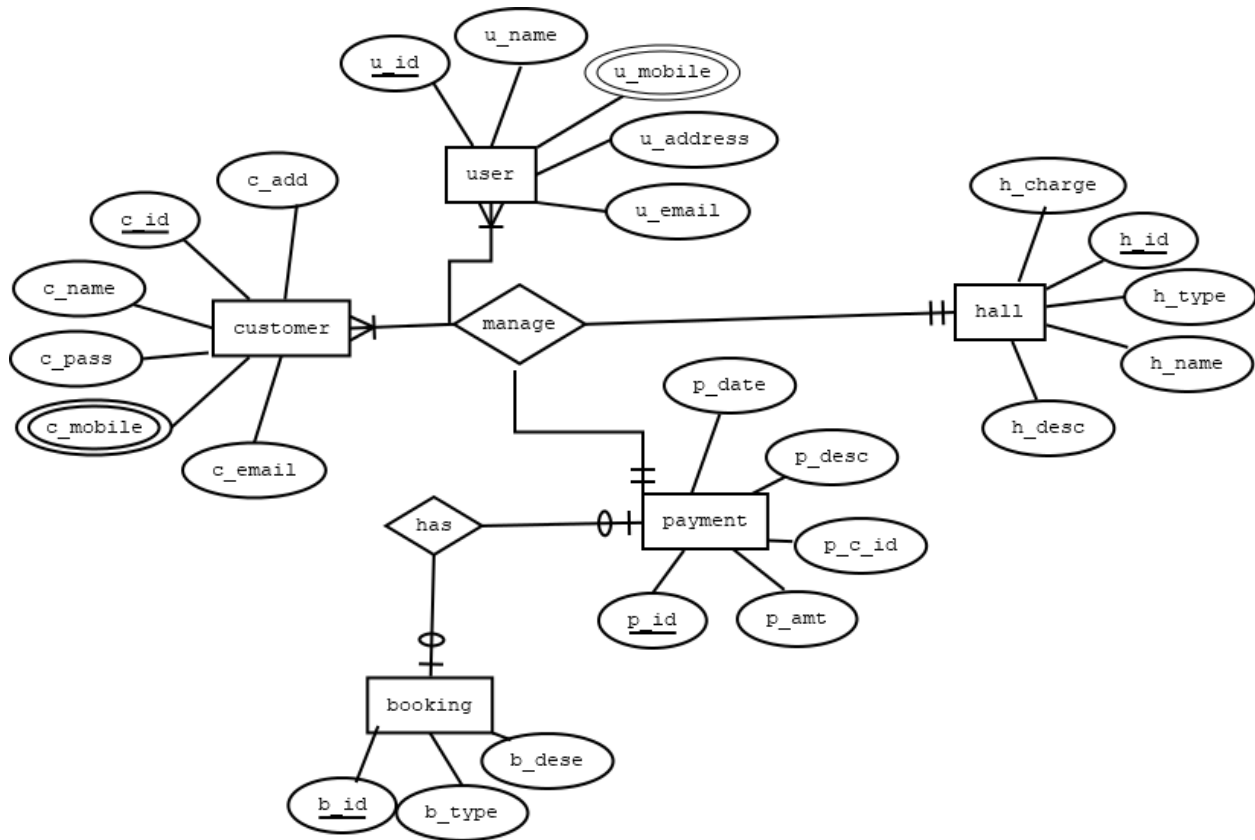
Normalization

→manage(<u>c_id</u>,c_add,c_name,c_pass,c_mobile,c_email,<u>h_id</u>,h_charge,h_type,h_name,h_desc)

1NF: c_mobile multivalued attribute

2NF: <u>c_id</u>,c_add,c_name,c_pass,c_mobile,c_email

   <u>h_id</u>,h_charge,h_type,h_name,h_desc,c_id

3NF: <u>c_id</u>,c_add,c_name,c_pass,c_mobile,c_email

   <u>h_id</u>,h_charge,h_type,h_name,h_desc,c_id

hc_id,h_charge,h_desc

Table:

c_id,c_add,c_name,c_pass,c_mobile,c_email

h_id,h_charge,h_type,h_name,h_desc,c_id

hc_id,h_charge,h_desc

➔manage(u_id,u_name,u_mobile,u_address,u_email,p_id,p_date,p_desc,p_amt)

1NF: u_mobile multivalued attribute

2NF: u_id,u_name,u_mobile,u_address,u_email,

p_id,p_date,p_desc,p_amt,u_id

3NF: u_id,u_name,u_mobile,u_address,u_email,

p_id,p_date,p_desc,p_amt,u_id

pu_id,p_amt,p_desc

Table:

u_id,u_name,u_mobile,u_address,u_email,

p_id,p_date,p_desc,p_amt,u_id

pu_id,p_amt,p_desc

➔has(b_id,b_type,b_desc, p_id,p_date,p_desc,p_amt)

1NF: No multivalued attribute

2NF: b_id,b_type,b_desc,p_id

p_id,p_date,p_desc,p_amt

3NF: b_id,b_type,b_desc,p_id

p_id,p_date,p_desc,p_amt

No transitive dependency

Table:

b_id,b_type,b_desc,p_id

p_id,p_date,p_desc,p_amt

Total Table:

c_id,c_add,c_name,c_pass,c_mobile,c_email

h_id,h_charge,h_type,h_name,h_desc,c_id

hc_id,h_charge,h_desc

u_id,u_name,u_mobile,u_address,u_email,

p_id,p_date,p_desc,p_amt,u_id

pu_id,p_amt,p_desc

b_id,b_type,b_desc,p_id

p_id,p_date,p_desc,p_amt

Final Table:

c_id,c_add,c_name,c_pass,c_mobile,c_email

h_id,h_charge,h_type,h_name,h_desc,c_id

hc_id,h_charge,h_desc

u_id,u_name,u_mobile,u_address,u_email

p_id,p_date,p_desc,p_amt,u_id

b_id,b_type,b_desc,p_id

Final Table list:

1.Customer_Info	c_id,c_add,c_name,c_pass,c_mobile,c_email
2.Hall_Management	h_id,h_charge,h_type,h_name,h_desc,c_id
3.Discount_Info	hc_id,h_charge,h_desc
4.User_Info	u_id,u_name,u_mobile,u_address,u_email
5.Payment_System	p_id,p_date,p_desc,p_amt,u_id
6.Booking_system	b_id,b_type,b_desc,p_id

Table Creation:

1) Customer_Info:

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **CUSTOMER_INFO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMER_INFO	C_ID	Number	-	5	0	1	-	-	-
	C_NAME	Varchar2	40	-	-	-	✓	-	-
	C_MOBILE	Number	-	15	0	-	-	-	-
	C_PASS	Varchar2	40	-	-	-	✓	-	-
	C_ADD	Varchar2	40	-	-	-	✓	-	-
	C_EMAIL	Varchar2	40	-	-	-	✓	-	-
									1 - 6

2) Hall_Management:

Object Type **TABLE** Object **HALL_MANAGEMENT**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
HALL_MANAGEMENT	H_ID	Number	-	5	0	1	-	-	-
	H_CHARGE	Number	-	15	0	-	-	-	-
	H_TYPE	Varchar2	40	-	-	-	✓	-	-
	H_NAME	Varchar2	40	-	-	-	✓	-	-
	H_DESC	Number	-	15	0	-	✓	-	-
	C_ID	Number	-	5	0	-	✓	-	-
									1 - 6

3) Discount_Info:

Object Type **TABLE** Object **DISCOUNT_INFO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DISCOUNT_INFO	HC_ID	Number	-	5	0	1	-	-	-
	H_CHARGE	Number	-	15	0	-	-	-	-
	H_DESC	Number	-	15	0	-	✓	-	-
									1 - 3

4) User_Info:

Object Type **TABLE** Object **USER_INFO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
USER_INFO	U_ID	Number	-	5	0	1	-	-	-
	U_NAME	Varchar2	40	-	-	-	✓	-	-
	U_MOBILE	Number	-	15	0	-	-	-	-
	U_ADD	Varchar2	40	-	-	-	✓	-	-
									1 - 4

5) Payment_System:

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **PAYMENT_SYSTEM**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PAYMENT_SYSTEM	P_ID	Number	-	5	0	1	-	-	-
	P_DATE	Date	7	-	-	-	✓	-	-
	P_AMT	Number	-	15	0	-	-	-	-
	P_DESC	Number	-	15	0	-	✓	-	-
	U_ID	Number	-	5	0	-	✓	-	-
									1 - 5

6) Booking_system:

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **BOOKING_SYSTEM**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BOOKING_SYSTEM	B_ID	Number	-	5	0	1	-	-	-
	B_TYPE	Varchar2	40	-	-	-	✓	-	-
	B_DESC	Number	-	15	0	-	✓	-	-
	P_ID	Number	-	5	0	-	✓	-	-
									1 - 4

Data Insert:

1) Customer_Info:

Results Explain Describe Saved SQL History

C_ID	C_NAME	C_MOBILE	C_PASS	C_ADD	C_EMAIL
1111	Alif	98765	1234	Dhaka	alifkhan6475@gamil.com
2222	Adol	43372	5678	Kustia	jannatuladol@gamil.com
3333	Rifat	47658	9012	Sirajganj	rifatkhan@gamil.com
4444	Rakib	9654	3456	Pabna	rakibjoy@gamil.com

4 rows returned in 0.00 seconds   CSV Export

2) Hall_Management:

H_ID	H_CHARGE	H_TYPE	H_NAME	H_DESC	C_ID
1	500000	Classic	The Rain Street	5	2222
2	800000	Premium	Dhaka Regency	8	1111
3	1000000	VIP	Pan Pacific SonarGaon	10	3333
4	400000	Normal	SIX Season	3	4444

4 rows returned in 0.00 seconds   CSV Export

3) Discount_Info:

HC_ID	H_CHARGE	H_DESC
1	500000	5
2	800000	8
3	1000000	10
4	400000	3

4 rows returned in 0.00 seconds   CSV Export

4) User_Info:

U_ID	U_NAME	U_MOBILE	U_ADD
101	Rifat	47658	Sirajgonj
102	Adol	43372	Kustia

2 rows returned in 0.00 seconds   CSV Export

5) Payment_System:

P_ID	P_DATE	P_AMT	P_DESC	U_ID
8888	12-DEC-20	900000	100000	101
6666	09-JAN-21	475000	25000	102

Results   Explain   Describe   Saved SQL   History

2 rows returned in 0.01 seconds   CSV Export

6) Booking_system:

Results   Explain   Describe   Saved SQL   History

B_ID	B_TYPE	B_DESC	P_ID
100	Normal	3	5555
200	Classic	5	6666
300	Premium	8	7777
400	VIP	10	8888

4 rows returned in 0.00 seconds   CSV Export

Query:

Joining:

1. Display customer name, id, hall type from customer_info and hall_management table.

   =select c.c_id,c.c_name,h.h_type from customer_info c,hall_management h where c.c_id=h.c_id

Results Explain Describe Saved SQL History

C_ID	C_NAME	H_TYPE
2222	Adol	Classic
1111	Alif	Premium
3333	Rifat	VIP
4444	Rakib	Normal

4 rows returned in 0.00 seconds   CSV Export

2. Display user name, id, address, and payment amount, id from user_info and payment_management table for whose user id is 102.

   =select   u.u_id,u.u_name,u_add,p_amt,p_id   from   user_info u,payment_system p where u.u_id=p.u_id and p.u_id=102

Results Explain Describe Saved SQL History

U_ID	U_NAME	U_ADD	P_AMT	P_ID
102	Adol	Kustia	475000	6666

1 rows returned in 0.00 seconds   CSV Export

3. Display user id, name payment id, date booking id, type from user_info,payment_system and booking_system table.

   =select   p.p_id,p.p_date,b.b_id,b.b_type,u.u_id,u.u_name   from payment_system p,booking_system b,user_info u where p.p_id=b.p_id and p.u_id=u.u_id

P_ID	P_DATE	B_ID	B_TYPE	U_ID	U_NAME
6666	09-JAN-21	200	Classic	102	Adol
8888	12-DEC-20	400	VIP	101	Rifat

2 rows returned in 0.00 seconds   CSV Export

Sub-Query:

4. Display hall id,hall type and hall name who is from kustia.

   =Select h_id,h_type,h_name from hall_management where c_id=(select c_id from customer_info where c_add='Kustia')

H_ID	H_TYPE	H_NAME
1	Classic	The Rain Street

1 rows returned in 0.00 seconds   CSV Export

5. Display booking id, booking type and booking discount whose payment cleared before '09-JAN-21'.

   =select b_id,b_type,b_desc from booking_system where p_id=(select p_id from payment_system where p_date<'09-JAN-21')

6. Display customer name, customer id, customer address and customer email whose hall charge is more than 400000.

=select   c_id,c_name,c_add,c_email   from   customer_info   where c_id=any(select c_id from hall_management where h_charge>400000)

Group Function:

7. Display total hall charge of all customer group by hall id and hall name.

=select sum(h_charge) from hall_management group by h_id,h_name

SUM(H_CHARGE)
500000
400000
800000
1000000

4 rows returned in 0.00 seconds   CSV Export

8. Display user address and count their number group by u_add in descending order.

    =select count(u_id),u_add from user_info group by u_add order by count(u_id) desc

COUNT(U_ID)	U_ADD
1	Sirajgonj
1	Kustia

2 rows returned in 0.00 seconds   CSV Export

Single row Function:

9. Display hall name and hall type together by using concat function.

    =select concat(h_name,h_type) from hall_management where rownum<4

Results   Explain   Describe   Saved SQL   History

CONCAT(H_NAME,H_TYPE)

The Rain StreetClassic

Dhaka RegencyPremium

Pan Pacific SonarGaonVIP

3 rows returned in 0.00 seconds   CSV Export

View:

10. Create a view payment_vu to display payment amount and discount for less than 900000.

=create view payment_vu as select p_amt,p_desc from payment_system where p_amt<900000

Results   Explain   Describe   Saved SQL   History

View created.

0.00 seconds