

Star Cineplex Movie Theater Management System

Course Name: Introduction To Database

Course Instructor: Sifat Rahman Ahona

Section: C

Group Members Name & ID:

Name	ID
1. Hasan, Rahul	18-39145-3
2. Alam, Mahfuzul	18-36746-1
3. Ahmed, MD. Istiaque	17-35306-2
4. Ahsan, MD. Misbahul	17-35235-2

Content List:

- > Introduction
- ➤ Case Study
- ➤ ER Diagram
- Normalization
- > Table Creation
- > Data Insertion
- Query Writing
- > Conclusion

***** Introduction

Star Cineplex is one of the biggest movie theater in Bangladesh. It is fully controlled by Computer based software to maintain day to day estimation. By this software we can store the category of tickets so that customers can purchase their desired tickets. It also records the limitation, time-limit, purchase and sell report of tickets. This system is totally hassle free and shorten the human effort. It is totally computerized so the probability of error is less and it is so user friendly. We created our project by using the concepts of DBMS.

Case Study

In Star Cineplex movie theater management system has many halls to show the movies. There is a manager to maintain the hall. Each manager has manager id, name, address, city country and multiple phone numbers. Each hall has hall name, id, and hall seats. A manager can manage multiple halls but a hall can be managed by exactly one manager. Different movies are showed in different halls. Each movie has movie id, name, time and type. A movie can be showed in many halls. Manager is also handling the staffs of movie theater. Each staff has staff id, name, age, address and multiple phone numbers. A staff is handled by exactly one manager but a manager can handle multiple staffs. There is a multiple ticket counters to sell the tickets. Each ticket counter has different id, number and type. Each ticket counter maintained by many staffs. Each ticket counter has ticket sellers to sell the tickets. Each ticket seller has seller id, name, address, age and multiple phone numbers. Each ticket counter has exactly one ticket seller. Ticket seller sells the tickets. Each ticket has ticket id, price, date and type. A customer can purchase multiple tickets. Customers can also reserve the tickets through online booking. Each customer has customer id, name, address, city, country and multiple phone numbers.

❖ Normalization

Staff->|-----handle-----||-Manager

Handle (<u>s_id</u>, s_name, s_phone, s_address, s_age, <u>m_id</u>, m_name, m_phone, m_address, city, country)

1NF:

• s_phone, m_phone are multivalued attributes.

2NF:

- 1. <u>s_id</u>, s_name, s_address, s_phone, s_age, m_id
- 2. m_id, m_name, m_address, m_phone, city, country

3NF:

- 1. <u>s_id</u>, s_name, s_address, s_phone, s_age, m_id
- 2. m_id, m_name, m_address, m_phone, a_id
- 3. <u>a_id</u>, city, country

Table:

- 1. <u>s_id</u>, s_name, s_address, s_phone, s_age, m_id
- 2. m_id, m_name, m_address, m_phone
- 3. <u>a_id</u>, city, country

Staff->|------Work------||-Hall

Work (s_id, s_name, s_phone, s_address, s_age, hall_id, hall_name, hall_seats)

1NF:

s_phone is multivalued attribute.

2NF:

- 1. <u>s_id</u>, s_name, s_phone, s_address, s_age, hall_id
- 2. hall_id, hall_name, hall_seats

3NF:

- 1. <u>s_id</u>, s_name, s_phone, s_address, s_age, hall_id
- 2. hall_id, hall_name, hall_seats

No transitive attributes.



- 1. s_id, s_name, s_phone, s_address, s_age, hall_id
- 2. hall_id, hall_name, hall_seats

Staff->|-----job------|<-Ticket counter

Job (<u>s_id</u>, s_name, s_phone, s_address, s_age, <u>tc_id</u>, tc_type, tc_no)

1NF:

s_phone is multivalued attribute.

2NF:

- 1. <u>s_id</u>, s_name, s_phone, s_address, s_age
- 2. tc_id, tc_type, tc_no
- 3. stc_id, s_id, tc_id

3NF:

- 1. <u>s_id</u>, s_name, s_phone, s_address, s_age
- 2. tc_id, tc_type, tc_no
- 3. stc_id, s_id, tc_id

No transitive attributes

Table:

- 1. <u>s_id</u>, s_name, s_phone, s_address, s_age
- 2. tc_id, tc_type, tc_no
- 3. stc_id, s_id, tc_id

Manager-||-----|<-Hall

Manage (m_id, m_name, m_address, m_phone, hall_id, hall_name, hall_seats)

1NF:

m_phone multivalued attribute.

2NF:

- 1. <u>m_id</u>, m_name, m_address, m_phone, city, country
- 2. hall_id, hall_name, hall_seats, m_id

3NF:

- 1. m_id, m_name, m_address, m_phone, a_id
- 2. hall_id, hall_name, hall_seats, m_id
- 3. <u>a_id</u>, city, country

Table:

- 4. m_id, m_name, m_address, m_phone, a_id
- 5. hall_id, hall_name, hall_seats, m_id
- 6. <u>a_id</u>, city, country

Hall->|----show-----|<-Movies

Show (<u>hall_id</u>, hall_name, hall_seats, <u>movie_id</u>, movie_name, movie_type, movie_time)

1NF:

• No multivalued attributes.

2NF:

- 1. hall_id, hall_name, hall_seats
- 2. <u>movie_id</u>, movie_name, movie_type, movie_time
- 3. hm_id, hall_id, movie_id

3NF:

- 1. hall_id, hall_name, hall_seats
- 2. <u>movie_id</u>, movie_name, movie_type, movie_time
- 3. hm_id, hall_id, movie_id

No transitive attributes.

Table:

- 1. hall_id, hall_name, hall_seats
- 2. <u>movie_id</u>, movie_name, movie_type, movie_time
- 3. hm_id, hall_id, movie_id

Ticket counter-||------has-----|<-Ticket seller

Has (tc_id, tc_type, tc_no, ts_id, ts_name, ts_phone, ts_address, ts_age)

1NF:

ts_phone multivalued attribute.

2NF:

- 1. tc_id, tc_type, tc_no
- 2. ts_id, ts_name, ts_phone, ts_address, ts_age, tc_id

3NF:

- 1. tc_id, tc_type, tc_no
- 2. ts_id, ts_name, ts_phone, ts_address, ts_age, tc_id

No transitive attributes.

Table:

- 1. <u>tc_id</u>, tc_type, tc_no
- 2. ts_id, ts_name, ts_phone, ts_address, ts_age, tc_id

Ticket seller-||-----sells-----|<-Ticket

Sells (ts_id, ts_name, ts_phone, ts_address, ts_age, t_id, t_type, t_price, t_date)

1NF:

ts_phone multivalued attribute.

2NF:

- 1. <u>ts_id</u>, ts_name, ts_phone, ts_address, ts_age
- 2. <u>t_id</u>, t_type, t_price, t_date, ts_id

3NF:

- 1. ts_id, ts_name, ts_phone, ts_address, ts_age
- 2. <u>t_id</u>, t_type, t_price, t_date, ts_id

No transitive attributes.

Table:

- 1. ts_id, ts_name, ts_phone, ts_address, ts_age
- 2. <u>t_id</u>, t_type, t_price, t_date, ts_id

Ticket->|-----purchase-----|<- Customers

Purchase (t_id, t_type, t_price, t_date, c_id, c_name, c_address, c_phone, city, country)

1NF:

• c_phone multivalued attribute.

2NF:

- 1. t_id, t_type, t_price, t_date
- 2. <u>c_id</u>, c_name, c_address, c_phone, city, country
- 3. <u>tico_id</u>, t_id, c_id

3NF:

- 1. t_id, t_type, t_price, t_date
- 2. c_id, c_name, c_address, c_phone, a_id
- 3. <u>ticu_id</u>, t_id, c_id
- 4. <u>a_id</u>, city, country

Table:

- 1. <u>t_id</u>, t_type, t_price, t_date
- 2. c_id, c_name, c_address, c_phone, a_id
- 3. ticu_id, t_id, c_id
- 4. <u>a_id</u>, city, country

Ticket->|------|<-Customers

Reserved (<u>t_id</u>, t_type, t_price, t_date, <u>c_id</u>, c_name, c_address, c_phone, city, country)

1NF:

c_phone multivalued attribute.

2NF:

- 4. <u>t_id</u>, t_type, t_price, t_date
- 5. <u>c_id</u>, c_name, c_address, c_phone, city, country
- 6. tico_id, t_id, c_id

3NF:

- 5. t_id, t_type, t_price, t_date
- 6. c_id, c_name, c_address, c_phone, a_id
- 7. ticu_id, t_id, c_id
- 8. a_id, city, country

Table:

- 1. t_id, t_type, t_price, t_date
- 2. c_id, c_name, c_address, c_phone, a_id
- 3. ticu_id, t_id, c_id
- 4. <u>a id</u>, city, country

Total Table:

- 1. <u>s_id</u>, s_name, s_address, s_phone, s_age, m_id
- 2. <u>m_id</u>, m_name, m_address, m_phone
- 3. <u>a_id</u>, city, country
- 4. <u>s_id</u>, s_name, s_phone, s_address, s_age, hall_id
- 5. hall_id, hall_name, hall_seats
- 6. <u>s_id</u>, s_name, s_phone, s_address, s_age
- 7. <u>tc_id</u>, tc_type, tc_no
- 8. stc_id, s_id, tc_id
- 9. m_id, m_name, m_address, m_phone, a_id

- 10. hall_id, hall_name, hall_seats, m_id
- 11. a id, city, country
- 12. hall_id, hall_name, hall_seats
- 13. movie_id, movie_name, movie_type, movie_time
- 14. hm_id, hall_id, movie_id
- 15. tc_id, tc_type, tc_no
- 16. ts_id, ts_name, ts_phone, ts_address, ts_age, tc_id
- 17. ts_id, ts_name, ts_phone, ts_address, ts_age
- 18. t_id, t_type, t_price, t_date, ts_id
- 19. t_id, t_type, t_price, t_date
- 20. c_id, c_name, c_address, c_phone, a_id
- 21. ticu_id, t_id, c_id
- 22. a_id, city, country
- 23. t_id, t_type, t_price, t_date
- 24. c_id, c_name, c_address, c_phone, a_id
- 25. ticu_id, t_id, c_id
- 26. a_id, city, country

Final Table:

- 1. <u>s_id</u>, s_name, s_address, s_phone, s_age, m_id
- 2. <u>a_id</u>, city, country
- 3. s_id, s_name, s_phone, s_address, s_age, hall_id
- 4. tc_id, tc_type, tc_no
- 5. stc_id, s_id, tc_id
- 6. m_id, m_name, m_address, m_phone, a_id
- 7. hall_id, hall_name, hall_seats, m_id
- 8. movie_id, movie_name, movie_type, movie_time
- 9. hm id, hall id, movie id
- 10. ts_id, ts_name, ts_phone, ts_address, ts_age, tc_id
- 11. t_id, t_type, t_price, t_date, ts_id
- 12. c_id, c_name, c_address, c_phone, a_id
- 13. ticu_id, t_id, c_id

***** Table Creation

```
1. create table staff
(
s_id varchar2(5),
s_name varchar2(20),
s_address varchar2(20),
s_phone number(12),
s_age number (3),
m_id varchar2(5)
)

desc staff
```

Results	Explain Des	scribe Saved	SQL His	tory							
Object T	Object Type TABLE Object STAFF										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment		
STAFE	<u>S_ID</u>	Varchar2	5	-	-	-	/	-	-		
	S_NAME	Varchar2	20	-	-	-	/	-	-		
	S_ADDRESS	Varchar2	20	-	-	-	~	-	-		
	S_PHONE	Number	-	12	0	-	/	-	-		
	S_AGE	Number	-	3	0	-	~	-	-		
	M_ID	Varchar2	5	-	-	-	/	-	-		
								1	I - 6		

2. create table address
(
a_id varchar2(5),
city varchar2(20),
country varchar2(20)
)
desc address

Results Explain Describe Saved SQL History Object Type TABLE Object ADDRESS Precision Scale Primary Key Nullable Default Comment Table Column Data Type Length <u>ADDRESS</u> A_ID 5 Varchar2 **CITY** Varchar2 20 COUNTRY Varchar2 20 / 1 - 3

```
3. create table staff2
(
s_id varchar2(5),
s_name varchar2(20),
s_phone number(12),
s_address varchar2(20),
s_age number (3),
hall_id varchar2(5)
)

desc staff2
```

Results Explain Describe Saved SQL History

Object Type TABLE Object STAFF2

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STAFF2	<u>S_ID</u>	Varchar2	5	-	-	-	/	-	-
	S_NAME	Varchar2	20	-	-	-	/	-	-
	S_PHONE	Number	-	12	0	-	/	-	-
	S_ADDRESS	Varchar2	20	-	-	-	/	-	-
	S_AGE	Number	-	3	0	-	/	-	-
	HALL_ID	Varchar2	5	-	-	-	/	-	-
								1	- 6

4. create table ticket_counter
 (
 tc_id varchar2(10),
 tc_type varchar2(20),
 tc_no number(12)
)

desc ticket_counter

Results Explain Describe Saved SQL History Object Type TABLE Object TICKET_COUNTER Table Column Length Precision Scale Primary Key Nullable Default Comment Data Type TICKET_COUNTER TC_ID Varchar2 10 ~ TC_TYPE Varchar2 20 TC_NO Number 12 0 / 1 - 3

```
5. create table ticket_counter2
   (
   stc_id varchar2(10),
   s_id varchar2(10),
   tc_id varchar2(10)
   )

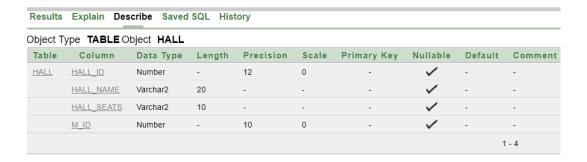
desc ticket_counter2
```

Results Explain [Describe S	aved SQL H	istory							
Object Type TABLE Object TICKET_COUNTER2										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
TICKET_COUNTER2	STC_ID	Varchar2	10	-	-	-	~	-	-	
	<u>S_ID</u>	Varchar2	10	-	-	-	/	-	-	
	TC_ID	Varchar2	10	-	-	-	/	-	-	
								1	- 3	

```
6. create table manager
(
m_id number(12),
m_name varchar2(20),
m_address varchar2(10),
m_phone number(10),
a_id number(10)
)
desc manager
```

Results Ex	plain Describ	e Saved SQ	L History							
Object Type TABLE Object MANAGER										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
MANAGER	M_ID	Number	-	12	0	-	/	-	-	
	M_NAME	Varchar2	20	-	-	-	/	-	-	
	M_ADDRESS	Varchar2	10	-	-	-	/	-	-	
	M_PHONE	Number	-	10	0	-	/	-	-	
	A_ID	Number	-	10	0	-	/	-	-	
								1	- 5	

```
7. create table Hall
(
hall_id number(12),
hall_name varchar2(20),
hall_seats varchar2(10),
m_id number(10)
)
desc Hall
```



8. create table Movies
(
movie_id number(12),
movie_name varchar2(20),
movie_type varchar2(10),
movie_time varchar2(10)
)
desc Movies

Results Explain Describe Saved SQL History

Object Type TABLE Object MOVIES

))	,								
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
MOVIES	MOVIE_ID	Number	-	12	0	-	/	-	-
	MOVIE_NAME	Varchar2	20	-	-	-	/	-	-
	MOVIE_TYPE	Varchar2	10	-	-	-	/	-	-
	MOVIE_TIME	Varchar2	10	-		-	~	-	-
_								1	- 4

9. create table Hall_Movie
(
hm_id number (12),
hall_id number (12),
movie_id number (12)
)
desc hall_movie

Results Explain Describe Saved SQL History Object Type TABLE Object HALL_MOVIE Nullable Default Comment Table Column Data Type Length Precision Scale Primary Key HALL_MOVIE HM_ID Number 12 0 HALL_ID Number 12 0 MOVIE_ID Number 12 0 1 - 3

```
10. create table Ticket_Seller (
   ts_id number (12),
   ts_name varchar2 (20),
   ts_phone number (12),
   ts_address varchar2 (20),
   ts_age number (10),
   tc_id number (10)
   )
   desc Ticket_seller
```

Results Explain Describe Saved SQL History

Object Type TAE	BLE Object TIC	KET_SELLE	R						
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comme
TICKET_SELLER	TS_ID	Number	-	12	0	-	~	-	-
	TS_NAME	Varchar2	20	-	-	-	~	-	-
	TS_PHONE	Number	-	12	0	-	~	-	-
	TS_ADDRESS	Varchar2	20	-	-	-	~	-	-
	TS_AGE	Number	-	10	0	-	~	-	-
	TC_ID	Number	-	10	0	-	/	-	-
									1 - 6

11. create table Ticket
(
t_id number (12),
t_type varchar2 (20),
t_price number (12),
t_date date,
ts_id number (10)
)
desc Ticket

Results	Explain [Describe Sav	ed SQL F	listory							
Object Ty	Object Type TABLE Object TICKET										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment		
TICKET	T_ID	Number	-	12	0	-	/	-	-		
	T_TYPE	Varchar2	20	-	-	-	/	-	-		
	T_PRICE	Number	-	12	0	-	/	-	-		
	T_DATE	Date	7	-	-	-	/	-	-		
	TS_ID	Number	-	10	0	-	/	-	-		
								1	- 5		

```
12. create table customer
(
    c_id number (12),
    c_name varchar2 (20),
    c_address varchar2 (12),
    c_phone number (10),
    a_id number (10)
)
desc customer
```

Results Exp	plain Describe	Saved SQL	History						
Object Type	TABLE Object	CUSTOMER	₹						
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMER	C_ID	Number	-	12	0	-	/	-	-
	C_NAME	Varchar2	20	-	-	-	~	-	-
	C_ADDRESS	Varchar2	12	-	-	-	~	-	-
	C_PHONE	Number	-	10	0	-	~	-	-
	A_ID	Number	-	10	0	-	~	-	-
								1	1 - 5

```
13. create table customer_ticket
(
ticu_id number (12),
t_id number (10),
c_id number (10)
)
desc Customer_ticket
```

```
Results Explain Describe Saved SQL History
Object Type TABLE Object CUSTOMER_TICKET
                 Column Data Type Length
                                                               Primary Key
                                                                            Nullable
                                                                                     Default Comment
     Table
                                             Precision
                                                        Scale
CUSTOMER_TICKET TICU_ID
                                             12
                          Number
                 T_ID
                                              10
                                                        0
                 C_ID
                                             10
                                                        0
                          Number
                                                                                            1 - 3
```

❖ Data Insertion

1. insert into staff

 $(s_id, s_name, s_address, s_phone, s_age, m_id)$ values (101, 'Fahad', 'Dhaka', 017364, 18, 201) insert into staff

(s_id, s_name, s_address, s_phone, s_age, m_id) values (102, 'Fahim', 'Dhaka', 019664, 18, 202) insert into staff

(s_id, s_name, s_address, s_phone, s_age, m_id) values (103, 'Farabi', 'Rajshahi', 017223, 20, 203) insert into staff

(s_id, s_name, s_address, s_phone, s_age, m_id) values (104, 'Rasel', 'Sylet', 018334, 22, 204) insert into staff

(s_id, s_name, s_address, s_phone, s_age, m_id) values (105, 'Sumon', 'Chittagong', 018760, 20, 205)

select * from staff

Results	Explain	Describe Save	d SQL Histor	У	
S_ID	S_NAME	S_ADDRESS	S_PHONE	S_AGE	M_ID
101	Fahad	Dhaka	17364	18	201
102	Fahim	Dhaka	19664	18	202
103	Farabi	Rajshahi	17223	20	203
104	Rasel	Sylet	18334	22	204
105	Sumon	Chittagong	18760	20	205

2. insert into address

(a_id, city, country) values (1001, 'Dhaka', 'Bangladesh') insert into address

(a_id, city, country) values (1002, 'Khulna', 'Bangladesh')

insert into address

(a_id, city, country) values (1003, 'Delhi', 'India')

insert into address

(a_id, city, country) values (1004, 'Kolkata', 'India')

insert into address

(a_id, city, country) values (1005, 'Dhaka', 'Bangladesh')

select * from address

Results	Explain	Describe	Saved SQL	History
A_ID	CITY	COUNTRY		
1001	Dhaka	Bangladesh		
1002	Khulna	Bangladesh		
1003	Delhi	India		
1004	Kolkata	India		
1005	Dhaka	Bangladesh		

3. insert into staff2

(s_id, s_name, s_phone, s_address, s_age, hall_id) values (101, 'Fahad', 017364, 'Dhaka', 18, 2110) insert into staff2

(s_id, s_name, s_phone, s_address, s_age, hall_id) values (102, 'Fahim', 019664, 'Dhaka', 18, 2110) insert into staff2

(s_id, s_name, s_phone, s_address, s_age, hall_id) values (103, 'Farabi', 017223, 'Rajshahi', 20, 2111) insert into staff2

(s_id, s_name, s_phone, s_address, s_age, hall_id) values (104, 'Rasel', 018334, 'Sylet', 22, 2112) insert into staff2

(s_id, s_name, s_phone, s_address, s_age, hall_id) values (105, 'Sumon', 018760, 'Chittagong', 20, 2110)

select * from staff2

Results	Explain	Describe Sa	ved SQL Histor	у	
S_ID	S_NAME	S_PHONE	S_ADDRESS	S_AGE	HALL_ID
101	Fahad	17364	Dhaka	18	2110
102	Fahim	19664	Dhaka	18	2110
103	Farabi	17223	Rajshahi	20	2111
104	Rasel	18334	Sylet	22	2112
105	Sumon	18760	Chittagong	20	2110

4. insert into ticket_counter

(tc_id, tc_type, tc_no) values (511, 'A', 34565)

insert into ticket_counter

(tc_id, tc_type, tc_no) values (512, 'A', 44321)

insert into ticket_counter

(tc_id, tc_type, tc_no) values (513, 'B', 35467)

insert into ticket_counter

(tc_id, tc_type, tc_no) values (514, 'B', 35565)

insert into ticket_counter

(tc_id, tc_type, tc_no) values (515, 'B', 56733)

select * from ticket counter

Results	Explain	Describe	Saved SQL	History
TC_ID	TC_TYPI	E TC_N	0	
511	Α	34565		
512	Α	44321		
513	В	35467		
514	В	35565		
515	В	56733		

```
5. create table ticket_counter2 (
stc_id varchar2(10),
s_id varchar2(10),
tc_id varchar2(10)
)
```

Select * from ticket_counter2

Results	Explain	Describe	Saved SQL	History
STC_ID	S_ID	TC_ID		
221	101	511		
222	102	512		
223	103	513		
224	104	514		
225	105	515		

6. insert into manager

(m_id, m_name, m_address, m_phone, a_id) values (201, 'Eshna', 'Dhaka', 015964, 1001) insert into manager

(m_id, m_name, m_address, m_phone, a_id) values (202, 'Jahid', 'Dhaka', 013664, 1001) insert into manager

(m_id, m_name, m_address, m_phone, a_id) values (203, 'Bappy', 'Delhi', 015964, 1003) insert into manager

(m_id, m_name, m_address, m_phone, a_id) values (204, 'Mahfuz', 'Khulna', 019454, 1002) insert into manager

(m_id, m_name, m_address, m_phone, a_id) values (205, 'Salman', 'Dhaka', 017894, 1001)

select * from manager

Results	Explain	Describe Save	ed SQL History	
M_ID	M_NAME	M_ADDRES	S M_PHONE	A_ID
201	Eshna	Dhaka	15964	1001
202	Jahid	Dhaka	13664	1001
203	Варру	Delhi	15964	1003
204	Mahfuz	Khulna	19454	1002
205	Salman	Dhaka	17894	1001

7. insert into hall

(hall_id, hall_name, hall_seats, m_id) values (2110, 'Padma', 400, 201) insert into hall

(hall_id, hall_name, hall_seats, m_id) values (2111, 'Meghna', 370, 201) insert into hall

(hall_id, hall_name, hall_seats, m_id) values (2112, 'Jamuna', 340, 202) insert into hall

(hall_id, hall_name, hall_seats, m_id) values (2113, 'Karnofuli', 350, 203) insert into hall

(hall_id, hall_name, hall_seats, m_id) values (2114, 'Shitalakkha', 300, 203)

select * from hall

Results Ex	cplain Describe	Saved SQL Hi	story
HALL_ID	HALL_NAME	HALL_SEATS	M_ID
2110	Padma	400	201
2111	Meghna	370	201
2112	Jamuna	340	202
2113	Karnofuli	350	203
2114	Shitalakkha	300	203

8. insert into movies

(movie_id, movie_name, movie_type, movie_time) values (5101, 'Avengers', 'A', '15:00') insert into movies

(movie_id, movie_name, movie_type, movie_time) values (5102, 'Skyfall', 'A', '20:00') insert into movies

(movie_id, movie_name, movie_type, movie_time) values (5103, 'Mission Impossible 3', 'A', '10:00') insert into movies

(movie_id, movie_name, movie_type, movie_time) values (5104, 'Bharat', 'B', '15:00') insert into movies

(movie_id, movie_name, movie_type, movie_time) values (5105, 'Dilwale', 'B', '13:00')

select * from movies

Results Ex	plain Describe	Saved SQL Histo	ry
MOVIE_ID	MOVIE_NAME	MOVIE_TYPE	MOVIE_TIME
5101	Avengers	А	15:00
5102	Skyfall	Α	20:00
5103	Mission Impossible	3 A	10:00
5104	Bharat	В	15:00
5105	Dilwale	В	13:00

9. insert into Hall_Movie

(hm_id, hall_id, movie_id) values (311, 2110, 5101)

insert into Hall Movie

(hm_id, hall_id, movie_id) values (312, 2110, 5102)

insert into Hall_Movie

(hm_id, hall_id, movie_id) values (313, 2112, 5103)

insert into Hall Movie

(hm_id, hall_id, movie_id) values (314, 2112, 5104)

insert into Hall_Movie

(hm_id, hall_id, movie_id) values (315, 2111, 5105)

select * from Hall_Movie

Results	Explain D	escribe Save	d SQL	History
HM_ID	HALL_ID	MOVIE_ID		
311	2110	5101		
312	2110	5102		
313	2112	5103		
314	2112	5104		
315	2111	5105		

10. insert into Ticket_seller

(ts_id, ts_name, ts_phone, ts_address, ts_age, tc_id) values (771, 'Moni', 013110, 'Rajshahi', 25, 511) insert into Ticket_seller

(ts_id, ts_name, ts_phone, ts_address, ts_age, tc_id) values (772, 'Lijon', 012910, 'Dhaka', 23, 512) insert into Ticket_seller

(ts_id, ts_name, ts_phone, ts_address, ts_age, tc_id) values (773, 'Abir', 013110, 'Rajshahi', 20, 513) insert into Ticket_seller

(ts_id, ts_name, ts_phone, ts_address, ts_age, tc_id) values (774, 'Niloy', 013110, 'Rajshahi', 26, 514) insert into Ticket_seller

(ts_id, ts_name, ts_phone, ts_address, ts_age, tc_id) values (775, 'Farhan', 013110, 'Rajshahi', 22, 515)

select * from Ticket_seller

Results	Explain De	scribe Saved	SQL History		
TS_ID	TS_NAME	TS_PHONE	TS_ADDRESS	TS_AGE	TC_ID
771	Moni	13110	Rajshahi	25	511
772	Lijon	12910	Dhaka	23	512
773	Abir	13110	Rajshahi	20	513
774	Niloy	13110	Rajshahi	26	514
775	Farhan	13110	Rajshahi	22	515

11. insert into Ticket

(t_id, t_type, t_price, t_date, ts_id) values (6111, 'Reserved', 1000, to_date('22/8/2019','dd mm yy'), 771)

insert into Ticket

(t_id, t_type, t_price, t_date, ts_id) values (6122, 'VIP', 800, to_date('22/8/2019','dd mm yy'), 772) insert into Ticket

(t_id, t_type, t_price, t_date, ts_id) values (6133, 'VIP', 1000, to_date('22/8/2019','dd mm yy'), 773) insert into Ticket

(t_id, t_type, t_price, t_date, ts_id) values (6144, 'Oneday Pass', 2000, to_date('22/8/2019','dd mm yy'), 774)

insert into Ticket

(t_id, t_type, t_price, t_date, ts_id) values (6155, 'Reserved', 1200, to_date('22/8/2019','dd mm yy'), 775)

select * from Ticket

Results	Explain [Describe Sav	ed SQL His	tory
T_ID	T_TYPE	T_PRICE	T_DATE	TS_ID
6111	Reserved	1000	22-AUG-19	771
6122	VIP	800	22-AUG-19	772
6133	VIP	1000	22-AUG-19	773
6144	Oneday Pass	2000	22-AUG-19	774
6155	Reserved	1200	22-AUG-19	775

12. insert into customer

(c_id, c_name, c_address, c_phone, a_id) values (821, 'Ayan', 'Mirpur', 013094, 1001) insert into customer

(c_id, c_name, c_address, c_phone, a_id) values (822, 'Nusrat', 'Gulshan', 019644, 1001) insert into customer

(c_id, c_name, c_address, c_phone, a_id) values (823, 'Prionty', 'Banani', 015871, 1005) insert into customer

(c_id, c_name, c_address, c_phone, a_id) values (824, 'Nihal', 'Rupganj', 017744, 1005) insert into customer

(c_id, c_name, c_address, c_phone, a_id) values (825, 'Shathi', 'Jatrabari', 013094, 1001)

select * from customer

Results	Explain	Describe Saved	SQL History	/
C_ID	C_NAME	C_ADDRESS	C_PHONE	A_ID
821	Ayan	Mirpur	13094	1001
822	Nusrat	Gulshan	19644	1001
823	Prionty	Banani	15871	1005
824	Nihal	Rupganj	17744	1005
825	Shathi	Jatrabari	13094	1001

13. insert into Customer_ticket (ticu_id, t_id, c_id) values (991, 6111, 821) insert into Customer_ticket (ticu_id, t_id, c_id) values (992, 6111, 822) insert into Customer_ticket (ticu_id, t_id, c_id) values (993, 6111, 823) insert into Customer_ticket (ticu_id, t_id, c_id) values (994, 6113, 824) insert into Customer_ticket (ticu_id, t_id, c_id) values (995, 6114, 825)

select * from Customer_ticket

Results	Explain	Describe	Saved SQL	History
TICU_ID	T_ID	C_ID		
991	6111	821		
992	6111	822		
993	6111	823		
994	6113	824		
995	6114	825		

4 Query

Subquery:

1. Display the name and stuff id for all staff whose age is higher than manager id 202? (Staff Table)

select s_name, s_id from staff where s_age> (select s_age from staff where m_id=202)

S_NAME	S_ID
Farabi	103
Rasel	104
Sumon	105

2. Display the name, address, phone number for all staff who works in Jamuna Hall? (Staff2 Table, Hall Table)

select s_name, s_address, s_phone from staff2 where hall_id=

(select hall_id from hall where hall_name='Jamuna')

S_NAME	S_ADDRESS	S_PHONE
Rasel	Sylet	18334

3. Display the ts_id, ts_name, ts_address and ts_age for all ticket seller whose tick counter no is 44321 (Ticket_Counter Table, ticket_seller Table)

select ts_id, ts_name, ts_address, ts_age from ticket_seller where tc_id=

(select tc_id from ticket_counter where tc_no=44321)

TS_ID	TS_NAME	TS_ADDRESS	TS_AGE
772	Lijon	Dhaka	23

Join:

1. Find out the stc_id, staff name and address from staff table?

Ans: select t.stc_id, s.s_name, s.s_address from ticket_counter2 t, staff2 s where t.s_id = s.s_id

Results	Explain De	scribe Saved SQL	History
STC_ID	S_NAME	S_ADDRESS	
221	Fahad	Dhaka	
222	Fahim	Dhaka	
223	Farabi	Rajshahi	
224	Rasel	Sylet	
225	Sumon	Chittagong	

2. Find out the ts_name, ts_phone, t_id, t_price from ticket seller table?

Ans: select ts.ts_name, ts.ts_phone, t.t_id, t.t_price from ticket_seller ts, ticket t where ts.ts_id = t.ts_id

Results Ex	plain Describ	e Save	d SQL Hi	story
TS_NAME	TS_PHONE	T_ID	T_PRIC	E
Moni	13110	6111	1000	
Lijon	12910	6122	800	
Abir	13110	6133	1000	
Niloy	13110	6144	2000	
Farhan	13110	6155	1200	

3. Display the movie id, name, hm_id, hall_id for movies whose hall is 2111, 2112?

Ans: select m.movie_id, m.movie_name, h.hm_id, h.hall_id from movies m, hall_movie h where m.movie_id = h.movie_id and hall_id in (2111, 2112)

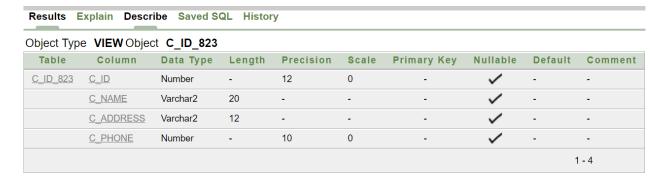
Results	Explain	Describe	Saved SQL	History
MOVIE_	ID M	OVIE_NAM	E HM_ID	HALL_ID
5103	Miss	ion Impossibl	e 3 313	2112
5104	Bhai	rat	314	2112
5105	Dilw	ale	315	2111

3 rows returned in 0.00 seconds CSV Export

View:

Create a view customer, that contains details of customer in customer id 823?

Ans: create view c_id_823 as select c_id, c_name, c_address, c_phone from customer where c_id=823



Single row function:

Display average price of ticket by their t_date?

Ans: select avg(t_price) from ticket group by t_date



Multiple row function:

Display sum of price of all ticket and name the column as total price?

Ans: select sum(t_price) as "Total Price" from ticket group by t_id

Total Price
1000
2000
1200
1000
800

***** Conclusion

After all the hard-works we finally created the Database management system of Star Cineplex. By this system all the workers, officials and customers can get a hassle-free service from our management service. We face some problems, but by the help of our groupmates we can say that we are finally successful. We are hopeful that in near future we will able to create a different Database management system.

THE END