**Create Table SQL Statements**

**Address Table**

CREATE TABLE address (

Address\_ID int(15) NOT NULL AUTO\_INCREMENT,

Customer\_ID int(15) NOT NULL,

City varchar(25) NOT NULL,

Area varchar(25) NOT NULL,

Road varchar(25) NOT NULL,

Building\_Number varchar(25) NOT NULL,

Flat\_Number varchar(25) NOT NULL,

Zip\_Code varchar(25) NOT NULL,

PRIMARY KEY (Address\_ID),

FOREIGN KEY (Customer\_ID) REFERENCES customer (Customer\_ID)

);

**Apartment Table**

CREATE TABLE apartment (

Apartment\_ID int(15) NOT NULL AUTO\_INCREMENT,

Apartment\_Name varchar(30) NOT NULL,

Address\_ID int(15) NOT NULL,

Square\_Feet varchar(30) NOT NULL,

Apartment\_Type varchar(30) NOT NULL,

Furnishing\_Type varchar(30) NOT NULL,

Apartment\_Price int(15) NOT NULL

PRIMARY KEY (Apartment\_ID),

FOREIGN KEY (Address\_ID) REFERENCES address (Address\_ID)

);

**Booking Table**

CREATE TABLE booking (

Booking\_ID int(15) NOT NULL AUTO\_INCREMENT,

Customer\_ID int(15) NOT NULL,

Apartment\_ID int(15) NOT NULL,

Date\_of\_Booking varchar(30) NOT NULL,

Booking\_Status varchar(30) NOT NULL,

Payment\_Method varchar(30) NOT NULL,

PRIMARY KEY (Booking\_ID),

FOREIGN KEY (Apartment\_ID) REFERENCES apartment (Apartment\_ID)

);

**Booking Facility Table**

CREATE TABLE booking\_facility (

BookingFacility\_ID int(15) NOT NULL AUTO\_INCREMENT,

Booking\_ID int(15) NOT NULL,

Facility\_ID int(15) NOT NULL,

PRIMARY KEY (BookingFacility\_ID),

FOREIGN KEY (Booking\_ID) REFERENCES booking (Booking\_ID),

FOREIGN KEY (Facility\_ID) REFERENCES facility (Facility\_ID)

);

**Customer Table**

CREATE TABLE customer (

Customer\_ID int(15) NOT NULL AUTO\_INCREMENT,

Customer\_Name varchar(30) NOT NULL,

Gender varchar(20) NOT NULL,

Age int(3) NOT NULL,

E-mail varchar(30) NOT NULL,

Contact\_Number int(20) NOT NULL,

Nationality varchar(20) NOT NULL

PRIMARY KEY (Customer\_ID)

) ;

**Facility Table**

CREATE TABLE facility (

Facility\_ID int(15) NOT NULL AUTO\_INCREMENT,

Facility\_Name varchar(30) NOT NULL,

Facility\_Charge\_per\_Month varchar(30) NOT NULL

PRIMARY KEY (Facility\_ID)

) ;

**Total Charge Table**

CREATE TABLE total\_charge (

Total\_Charge\_ID int(15) NOT NULL AUTO\_INCREMENT,

Customer\_ID int(15) NOT NULL,

Facilities\_Name varchar(1000) NOT NULL,

Total\_Amount\_Paid varchar(30) NOT NULL,

PRIMARY KEY (Total\_Charge\_ID),

FOREIGN KEY (Customer\_ID) REFERENCES customer (Customer\_ID)

);

**Insertion SQL’s**

**Insertion for Customer Table**

INSERT INTO customer (Customer\_ID, Customer\_Name, Gender, Age, E-mail, Contact\_Number, Nationality) VALUES (NULL, 'Daniel Jonas', 'Male', '50', 'jonas@gmail.com', '01997654873', 'USA');

**Insertion for Address Table**

INSERT INTO address (Address\_ID, Customer\_ID, City, Area, Road, Building\_Number, Flat\_Number, Zip\_Code) VALUES (NULL, '20006', 'Barisal', 'Gournadi', 'Torki, Uttar Chandshi', '45/A', 'H/1', '8230');

**Insertion for Apartment Table**

INSERT INTO apartment (Apartment\_ID, Apartment\_Name, Address\_ID, Square\_Feet, Apartment\_Type, Furnishing\_Type, Apartment\_Price) VALUES (NULL, 'Shanti Villa', '109', '1000', 'Two Bed Room', 'No Furnishing', '20000');

**Insertion for Booking Table**

INSERT INTO booking (Booking\_ID, Customer\_ID, Apartment\_ID, Date\_of\_Booking, Booking\_Status, Payment\_Method) VALUES (NULL, '20006', '1006', '04-Oct-2020', 'Booked', 'Monthly');

**Insertion for Facility Table**

INSERT INTO facility (Facility\_ID, Facility\_Name, Facility\_Charge\_per\_Month) VALUES (NULL, 'Transports ', '3000'), (NULL, 'Medical Service', '1000');

**Insertion for Booking Facility Table**

INSERT INTO booking\_facility (BookingFacility\_ID, Booking\_ID, Facility\_ID) VALUES (NULL, '6', '5002'), (NULL, '6', '5001'), (NULL, '6', '5003'), (NULL, '6', '5008'), (NULL, '6', '5007'), (NULL, '6', '5011'), (NULL, '6', '5004');

**Insertion for Total Charge Table**

INSERT INTO total\_charge (Total\_Charge\_ID, Customer\_ID, Facilities\_Name, Total\_Amount\_Paid) VALUES (NULL, '20006', 'Water, Electricity, Gas, Air Conditioner, Internet(Wi-Fi), Laundry Service, Servant Service', '32550');

**Sample Query’s for Project**

**BETWEEN operator**

SELECT \*

FROM customer

WHERE Age BETWEEN 20 AND 35;

**AND, OR operator**

SELECT \*

FROM customer

WHERE (Age<38 OR Customer\_ID>20007) AND Gender='Male';

**LIKE optr**

SELECT \*

FROM customer

WHERE Customer\_Name LIKE 'A%';

SELECT \*

FROM customer

WHERE Customer\_Name LIKE '%n';

SELECT \*

FROM customer

WHERE Customer\_Name LIKE 'A\_\_\_\_\_\_\_\_\_\_';

SELECT \*

FROM customer

WHERE Customer\_Name LIKE '\_\_\_\_\_\_\_\_\_\_\_s';

SELECT \*

FROM apartment

WHERE Apartment\_Name NOT LIKE 'R%';

**Relation operator / order by clause**

SELECT \*

FROM apartment

WHERE Apartment\_Price>20000

ORDER BY Apartment\_Price ASC;

SELECT \*

FROM apartment

WHERE Apartment\_Price>20000

ORDER BY Apartment\_Price DESC;

SELECT \*

FROM facility

WHERE Facility\_Charge\_per\_Month>1000

GROUP BY Facility\_Charge\_per\_Month;

**UPPER/LOWER key word**

SELECT LOWER (Apartment\_Name) AS NAME, Apartment\_ID, Apartment\_Price

FROM apartment;

SELECT LOWER (Apartment\_Name) AS NAME, Apartment\_ID, Apartment\_Price

FROM apartment;

**SubQuery**

SELECT Address\_ID, City

FROM address

WHERE Customer\_ID IN (SELECT Customer\_ID

FROM customer

WHERE Age>24);

SELECT Booking\_ID, Booking\_Status, Payment\_Method

FROM booking

WHERE Apartment\_ID IN (SELECT Apartment\_ID

FROM apartment

WHERE Apartment\_Type='House');

**#join\_betwwen\_two\_table**

SELECT a.Apartment\_Type, a.Furnishing\_Type, ad.Customer\_ID, ad.Area

FROM apartment as a, address as ad

WHERE ad.Address\_ID=a.Address\_ID;

**#join\_betwwen\_three\_table\_using\_and operator**

SELECT c.Customer\_Name, c.Age, a.Apartment\_Type, a.Furnishing\_Type, ad.Customer\_ID, ad.Area

FROM apartment as a, address as ad, customer as c

WHERE ad.Address\_ID=a.Address\_ID AND ad.Customer\_ID=c.Customer\_ID;