Database Systems

Lecture

CUSTOMER						
CustomerID:	FirstName:	LastName:	Contact:	Profession:		
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1	Marcus	Cruz	938912	Student		
2	Justine	Henderson	289374	Artist		
3	Lia	Shelton	234322	Artist		
4	Joanna	Shaffer	778989	Student		
5	Jonathon	Sheppard	364932	Engineer		

BOOKING				TABLES		
BookingID: int	TableNumber: int	Date: date	CustomerID: int	TableNumber: int	Details: varchar(50)	
1	2	2018-01-05	4	1	4 People	
2	2	2018-02-05	1	2	4 People Family Table	
3	1	2018-03-05	3	3	3 People	
4	4	2018-04-05	1	4	2 People	
5	5	2018-05-05	2	5	8 People Family Table	



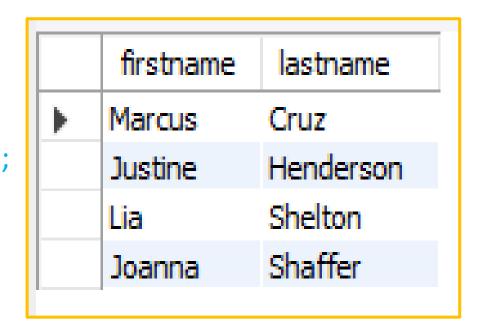
- FirstName and LastName of Customers who have booked at least one table
 - select distinct c.firstname, c.lastname

from customer c, booking b

where c.customerID=b.customerId;

select firstname, lastname

from customer



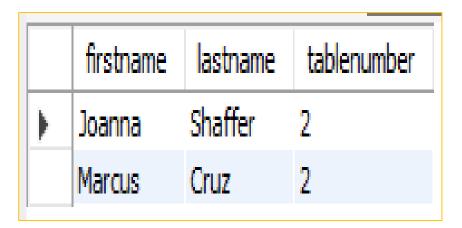
where CustomerID in (select CustomerID from booking);



- FistName and LastName of Customers who have booked TableNumber=2
- select distinct c.firstname, c.lastname,b.tablenumber

from customer c, booking b

where c.customerID=b.customerId And b.tablenumber=2;



- Number of times a table has been booked along with it's Details
- select t.details,b.tablenumber,count(b.Tablenumber) As `Number of Bookings`

from booking b, tables t

where b.tablenumber=t.tablenumber

group by b.tablenumber;

details	tablenumber	Number of Bookings	
4 People	1	1	
4 People Family Table	2	3	
2 People	4	1	
8 People Family Table	5	1	



Number of times a table has been booked by a Customer belonging to a particular
 Profession

select c.profession, count(b.tablenumber) As `Number of Bookings`

from booking b, customer c, tables t

where b.tablenumber=t.tablenumber and c.customerID=b.customerid

group by c.profession;

profession	Number of Bookings
Student	3
Artist	2



- FirstName and LastName of Customer(s) who booked the maximum tables
- select c.firstname, c.lastname, count(b.customerid) as bookedtables

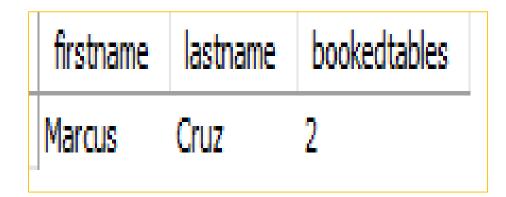
from customer c, booking b

where c.customerID=b.customerid

group by b.customerid

Order by bookedtables desc

limit 1;



Queries

- All the information about Customers along with their BOOKING details
- SELECT c.CustomerID, c.FirstName, c.LastName, c.Contact, c.Profession,

b.BookingID, b.TableNumber, Date

FROM customer c, booking b

WHERE c.customerid = b.customerid;

CustomerID	FirstName	LastName	Contact	Profession	BookingID	TableNumber	Date
4	Joanna	Shaffer	778989	Student	1	2	2018-01-05
1	Marcus	Cruz	938912	Student	2	2	2018-02-05
3	Lia	Shelton	234322	Artist	3	1	2018-03-05
1	Marcus	Cruz	938912	Student	4	4	2018-04-05
2	Justine	Henderson	289374	Artist	5	5	2018-05-05

Thanks a lot