

Database Systems

Lecture

CUSTOMER				
CustomerID: int	FirstName: varchar(20)	LastName: varchar(20)	Contact: int	Profession: varchar(20)
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);`

	firstname	lastname
▶	Marcus	Cruz
	Justine	Henderson
	Lia	Shelton
	Joanna	Shaffer

- FirstName 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;`

	firstname	lastname	tablenumber
▶	Joanna	Shaffer	2
	Marcus	Cruz	2



Queries

- 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



Queries

- 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;`

firstname	lastname	bookedtables
Marcus	Cruz	2



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