Database Management for Business

Database Project 6: Create Queries

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DATABASE PROJECT P.6

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QUERY 1:

```sql
select roomname, date, numberattend, ic.email as 'Customer Email', (MaxCapacity-NumberAttend) as RemainingCapacity
from events as e
join IndividualCust as ic on e.customerid=ic.customerid
where (MaxCapacity-NumberAttend) <= 25
and Date between '04/20/2018' and '07/20/2018'
order by date asc;
```

	roomname	date	numberattend	Customer Email	RemainingCapacity
1	Gothic Suite	2018-05-09 13:30:00	325	vclubleyh@usa.gov	25
2	Conference B	2018-05-15 13:00:00	100	lmcelvogue8@zimbio.com	0
3	Conference A	2018-06-24 16:00:00	75	cburdus0@washington.edu	0

As the building owner, Turn-of-Events needs to ensure that all events remain at or below the maximum capacity for each specific room. The organization would like to send basic reminder emails every three-month period to the individual customer events that have at or near the maximum number attending. This query shows the individual customers at this threshold, so the employees running the query can send out the reminder email. Overall, these reminder emails can help reduce the number of complaints from customers who may have guests turned away after meeting the capacity threshold, as well as to ensure strict conformance to all building codes. A similar query can be performed by joining the CompanyCust table instead of the IndividualCust table.

QUERY 2:

```sql
Select count(e.customerID) as EventsHeld, FirstName, LastName, Email
from individualcust as ic
join events as e on ic.customerid=e.customerid
where date between '01/01/2016' and '03/31/2018'
group by ic.firstname, lastname, email
having count(e.customerID) > 1
order by eventsheld desc;
```

	EventsHeld	FirstName	LastName	Email
1	2	Averille	Manson	amansionn@booking.com
2	2	Derek	Baggins	lmcelvogue8@zimbio.com
3	2	Gary	Cauthon	bstorrock3@yellowpages.com

Turn-of-Events would like to send out a "thank you" coupon to individuals who have held more than one event with the company since it was founded in 2016. This query provides a count of the number of times an individual customer has hosted an event at any location since this time, then displays all customers who have hosted more than one. The company does not require old customers to update contact information, so the email address is still likely to be in service after two years, whereas the address may have changed.

QUERY 3:

```
Select BuildingName, City, State, SQFT, RoomName
from Location as L
join rooms as r on l.locationID=r.locationID
where RoomName IN(
    Select RoomName
        From Events
        Where  Date between '05/02/2018' and '06/01/2018')
    and MaxCapacity IN(
    Select MaxCapacity
        From Events
        Where  Date between '05/02/2018' and '06/01/2018')
order by SQFT desc;
```

	BuildingName	City	State	SQFT	RoomName
1	Boehm House	Marion	IL	4750	Green Room
2	Charles House	Bloomington	IL	2250	Gothic Suite
3	Charles House	Bloomington	IL	1500	Conference B
4	Bois Bande Boutique	Bourbonnais	IL	1000	Conference A

Turn-of-Events gets rooms professionally cleaned on the first of the month (May 1st) if there will be an event held in the room over that month. This query searches the database for any location and room that has an event scheduled between May 2nd and June 1st, and it is used to call the local cleaning company for a May 1st cleaning. This cleaning company can then be provided the relevant room, building, and square footage to gather pricing estimates. This cleaning schedule allows Turn-of-Events to easily ensure the rooms are all professionally cleaned prior to holding an event, while also saving money by not using the professional services when no events are being held.

QUERY 4:

```sql
Select RoomName, NumberAttend, Company, (NumberAttend-MaxService) as OverCatererCapacity, email
from caterer as ca
join events as e on e.catererid=ca.catererid
where (NumberAttend-MaxService) > 100
order by OverCatererCapacity desc;
```

	RoomName	NumberAttend	Company	OverCatererCapacity	email
1	Green Room	550	Kozey Kooks	400	vanderhyden.joshua.kooks@gmail.com
2	Garamand Room	425	Torphy-Nienow	375	flemmingbaking@torphynienow.com
3	Turquoise Suite	480	Herman-White	280	robertajenson@hermanwhite.com
4	Comic Sans Suite	725	Runolfsdottir Baking Company	275	beidabaking@runolfsdottir.com
5	Brush Ballroom	400	Smitham and Sons Catering Services	200	jonathonrhodes@sscatering.com
6	Clarendon Ballroom	400	Herman-White	200	robertajenson@hermanwhite.com
7	Ballroom A	420	Schuster Food Solutions	170	tracysanderscatering@schusterfoods.com
8	Sunset Room	375	Crona Barbeque Company	155	cronabarbequeservices@gmail.com

Turn-of-Events does not have their own on-staff caterers, but they work closely with several companies to ensure all customers are satisfied when they hold events. This symbiotic relationship relies on the sharing of information between Turn-of-Events and the catering companies. The query provides a list of events that caterers are providing services for that exceed the listed capacity for the catering company. Instead of calling in another catering company to take over services, Turn-of-Events gives the assigned company an opportunity to adjust staff level or make different accommodations to make up for the discrepancy. If they cannot make up the difference, Turn-of-Events can cooperate with other catering companies as necessary. This relationship helps ensure a high level of service provided by the catering staff by building a strong professional relationship.

QUERY 5:

```sql
select Firstname, LastName, Count(ev.employeeID) as CoordinatedEvents, Email
from employees as em
join events as ev on em.employeeid=ev.employeeid
where date between '01/01/2017' and '03/31/2018'
and numberattend > 300
and companyID is NOT NULL
group by firstname, lastname, email
having count(ev.employeeID) > 1
order by coordinatedevents desc;
```

	Firstname	LastName	CoordinatedEvents	Email
1	Constantine	Geroldi	2	zjemisonlz@ustream.tv
2	Femanda	Aynold	2	bdumberellly@cisco.com

Turn-of-Events would like to congratulate Event Coordinators on staff that have provided

services to large companies since January 2017. Larger event coordination is much more difficult

than for small parties, so management set a limit at events with over 300 individuals attending.

This query returns the name and email of Event Coordinators that have serviced more that one

large party, so they can be sent both a thank you email for their services, as well as to a portal to

collect a small bonus award.

QUERY 6:

```
select Date, EventID, ContactFN, ContactLN, Email
from CompanyCust as cc
join events as e on cc.companyid=e.companyid
where Date between '08/01/2017' and '03/31/2018'
     and EmployeeID IN(
          Select EmployeeID
          From Employees
          Where LastName LIKE 'Doll');
```

	Date	EventID	ContactFN	ContactLN	Email
1	2018-02-15 18:00:00	233	Cassondra	Endicott	cvanichev23@apple.com
2	2017-09-20 13:30:00	237	Hector	James	hectorjames@daremurray.com
3	2018-01-18 14:00:00	238	Bill	Hanson	billhansonbauch@larkinworkforce.com

Turn-of-Events has received a list of complaints about the employee Doll Walne from individual

customers that have been provided event coordination services from her. Management would

like to reach out to the company customers who have worked with her to see if they also had

issues during their event planning process. This query searches for the events help by companies

that were coordinated by Doll Walne in the last eight months. Turn-of-Events would like to

remedy any issues caused by the staff member, which they can only do by reaching out to see the

extent of the employee's mistakes.

QUERY 7:

```
Select BuildingName, RoomName, Street, City, Zip
from Rooms as r
join location as l on r.locationid=l.locationid
where State <> 'IL'
and RoomName IN(
    Select RoomName
    From Events
    Where CustomerID IN(
        Select CustomerID
        From IndividualCust
        Where State = 'IL')
    or CompanyID IN(
        Select CompanyID
        From CompanyCust
        Where State = 'IL'))
;
```

	BuildingName	RoomName	Street	City	Zip
1	Parlor Palms	Camelia Suite	1567 Tennessee Hill	Des Moines	50301
2	Cocona Inn	Lapis Room	96 Victoria Pass	Milwaukee	50145

Turn-of-Events has buildings in Illinois and bordering states, but most of the locations are

centered in Illinois. Management would like to see what out of state buildings are being used for

events by Illinois residents and companies. This information can be used in a few ways. First, the

query results can be used when considering additional marketing campaigns to the Illinois

companies, since currently the materials are centered around Illinois-only locations. Second, the

results of this query raise additional questions that should be researched. Why are Illinois

customers going out of Illinois hold these events when there are so many locations within the

state? Are there specific features offered by these out of state locations that should be integrated

into the other buildings? An additional query can be performed to gather the data on the

customers holding events at these two locations so management can research this further.

QUERY 8:

```sql
Select Name, NumEmployees, Email,
     count(case when date between '01/01/2016' and '12/31/2017' then 1 else null END) as EventsBefore2018,
     count(case when date between '01/01/2018' and '12/31/2018' then 1 else null END) as Events2018
From Events as e
join companycust as cc on e.companyid=cc.companyid
where numemployees > 350
group by Name, NumEmployees, Email
order by numemployees desc;
```

	Name	NumEmployees	Email	EventsBefore2018	Events2018
1	Paucek Group	990	collinprewitt@paucekgroup.com	1	2
2	Larkin-Bauch	840	billhansonbauch@larkinworkforce.com	0	1
3	Schamberger, Reichert and Carter	740	patrickrothfuss@schamberger.com	1	0
4	Cruickshank, Monahan and Emser	660	tylermesner266@cme.com	0	1
5	Harber Group	510	brendtsumnerharbergroup@gmail.com	0	1
6	Keebler-Cunnings	500	brettlinden79@keeblercunnings.com	1	1
7	Sipes and Sons	410	mpapworth@sipesandsons.com	1	0
8	Mayer Inc	360	stolemachine1@tmobile.com	2	1
9	Schowalter Group	360	hankhill1@schowalter.com	0	1

Management at Turn-of-Events wants to explore trends in event attendance across the major company customers. This query provides a count of the number of events the company held before 2018 and a count of the number of events that are to be held in 2018 for the larger company customers. Management can then use this information to contact companies who had held events with Turn-of-Events prior, but do not have anything planned for this year to see if the company had done anything wrong. Additionally, Turn-of-Events can gain insight from new company customers as to the effectiveness of various marketing campaigns. Overall, this provides an opportunity to implement Voice of the Customer quality initiatives across the company.