

**Computer Lab - Practical Question Bank**  
**FACULTY OF COMMERCE, OSMANIA UNIVERSITY**

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**B.Com (Business Analytics) III Semester**  
**Data Analytics Modeling**

Time: 60 Minutes

Record : 10  
Skill Test : 15  
Viva - Voce : 10  
Total Marks : 35

**MS Excel or Power query and SQL:**

**Questions from 1 to 25 :: Ms Excel/Power Query**

**Table for Question No. 1-5**

Employee ID	Employee Name	Gender	Age	Date of Hiring	Salary
D-45001	Anne hardy	f	45	6th jan 2006	4,50,000
D-45001	Ram sastry	m	23	1st feb2007	1,25,000
D-45203	SHYAM Mohan	m	35	01-08-2005	2,15,000
D-45932	Riya SHARmA	f	29	01-03-2010	2,12,000
D-45006	Madhuri dEv	f	38	01-09-2005	3,10,000

1. Remove blank rows from the above table.
2. Format date from the above table.
3. Using Excel, insert currency in salary column.
4. Using Excel, format employee name to proper case letters.
5. Using Excel, change the letters to Upper case in gender column.

**Table for Question No. 6-10**

Customer ID	Customer Name	Contact Name	Street Name	City	Postal Code	Country
3124	Alfreds Futterkiste	Maria Anders	Obere Str. 57,	Berlin	12209	Germany
1238	Ana Trujillo helados	Ana Trujillo	avda. de la Constituci�n 2222	Mexico city	5021	Mexico
4562	Antonio Moreno Taqueria	antonio moreno	mataderos 2312	Mexico city	5023	Mexico
5678	Around the Horn	thomas hardy	120 Hanover Sq.	NY	WA1 1DP	USA
2314	Berglunds snabbola	Christina Berglund	Berguvsv,,gen 8	Sydney	33-22	Australia
365	Amit Mishra	Maria Anders	Obere Str. 57	Sydney	65-332-3	Australia
7890	williami sanuo	Ana Trujillo	Avda. de la Constituci�n 2222	Sydney	43433	Australia
56789	Sonio Moreno	Antonio Moreno	120 Jefferson St.,Riverside	NJ	8075	US
3657	Amit Mishra	Maria Anders	Obere Str. 57	Sydney	65-332-3	Australia
2314	Berglunds snabbkp	Christina Berglund	Berguvsv,,gen 8	Sydney	33-22	Australia

6. Using Excel, concatenate the columns Street name and city.
7. Insert "C-" in the left side of the customer Id in customer name column of the above data.
8. Using Excel, remove the leading spaces and extra spaces in Customer name and contact name columns.
9. From the above table remove the duplicate rows.
10. From the above table remove the customer whose customer ID is not a 4 digit number

**Table for Question No. 11-15**

<b>Employee ID</b>	<b>Employee</b>	<b>Gender</b>	<b>Age</b>	<b>Year of</b>	<b>Date of</b>	<b>Salary</b>
ID	Name	M/F	As on date	Graduation	Hiring	In Rupees
D45078	Somya Rao	F	50	1975	01-10-1990	6,50,000
S45039	Raju Budda	M	43	2000	02-08-1999	4,23,000
M45020	Jai Raj	M	48	1993	08-10-2000	4,65,000
M45038	Kalyani Kumari	F	37	2004		3,12,000
M45037	Sam Joes	M	36	2005	04-02-2006	3,20,000
S45059	Poter Michel	M	39	2004	03-10-2008	2,89,000
F45012	Siddu kommnani	M	42	2000	15-10-2007	4,12,000
F45023	Geeta Chowdari	F	46	1996	12-10-2005	4,34,000
D45078	Lavanya Koppula	F	49	1994	31-10-2004	
	Hema Sarvani	F	50	1992	25-10-2000	5,69,000
S45060	Gopal Das	M	54	1998	12-09-2001	6,32,000
F45062	Siya Paul	F	51		19-06-2003	5,90,000
M45026	Hari Krishna	M	38	2003	25-04-2003	
O45029	Priya Dixit	F		2005	12-07-2006	3,45,000
A45037	Anu Devara	F	58	1985	12-09-2008	6,95,000

11. From the above data in Excel, Concatenate the Headers.
12. From the above data in Excel, convert the numerals in Year column to text format.
13. From the above table in Excel, highlight the blank spaces and fill it with "Not Available".
14. From the above table in Excel, select only the first name from the Employee name and paste in another column.
15. From the above table, select the Date of Hiring column and change the format to YY-MM-DD

Customer Name	Company Name	PHONE NUMBER	Address, City, State, and ZIP	Amount	Shipment Date	Order date	Sales Rep ID	Commissions
Fausto Wells	Hansen-Block	3574999014	p.o. box 52367, wamac, ga, 38940	5,31,950	2020-01-18	2019-08-18	8	
Lon van Batenburg	Stracke-Kirlin	7684940151	p.o. box 55222, texas, vt, 21681	6,76,359	2020-08-03	2020-02-03	3	
Cordie Henckes	Rohan PLC	6569415846	985 quiet second motorway, christiana borough, nv, 38006	5,34,680	2019-09-21	2019-10-21	1	
Geraldo Roeder	Smith PLC	6159714872	476 rustic underpass, algoood, nc, 97098	5,83,679	2020-04-22	2020-04-22	9	
Debora Dekker	Hyatt-Durgan	9759057307	389 broad oval, south palm beach, az, 58103	6,45,572	2021-02-11	2021-03-11	6	
Dionne Kalt	Hansen-Block	4803299394	p.o. box 33125, elm springs, ny, 21979	6,05,863	2020-05-06	2020-04-06	7	

**Above Table for Question No. 16-20**

16. Format the above table in proper format.
17. From the above table format the phone number in US form Ex: +1(123)345-6758
18. From the above table separate the address, city, state and zip into different columns
19. Check the inconsistencies in the table and highlight them.
20. Insert "\$" in for the amount in the Amount column of the above table.

**Table for Question No. 21-25**

Customer Name	Company Name	PHONE NUMBER	Address, City, State, and ZIP	Amount	Shipment Date	Order date	Mail Id	Sales Rep ID	Commissions
faUsto wElls wORrgo	Hansen-Block	3574999014	p.o. box 52367, wamac, ga, 38940	5,31,950	2020-01-18	2019-08-18	<a href="mailto:fausto&amp;worng@gmail.com">fausto&amp;worng@gmail.com</a>	8	
Lon vAn bateVburg	Stracke-Kirlin	7684940151	p.o. box 55222, texas, vt, 21681	6,76,359	2020-08-03	2020-02-03	Lonvan.gmail.com	3	
Cordie henckes dickens	Rohan PLC	656941#846	985 quiet second motorway, christiana borough, nv, 38006	5,34,680	2019-09-21	2019-10-21	<a href="mailto:CORDIE-@gmail.com">CORDIE-@gmail.com</a>	1	
geraldo roERDder dugoe	Smith PLC	615971487	476 rustic underpass, algood, nc, 97098	5,83,679	2020-04-22	2020-04-22	<a href="mailto:geraldo@gmail.com">geraldo@gmail.com</a>	9	
Debora Dekker Kilin	Hyatt- Durgan	9759057307	389 broad oval, south palm beach, az, 58103	6,45,572	2021-02-11	2021-03-11	<a href="mailto:deboradekker@yahoo.in">deboradekker@yahoo.in</a>	6	
DioNNE Kalt HEnse	Hansen-Block	4803299394	p.o. box 33125, elm springs, ny, 21979	6,05,863	2020-05-06	2020-04-06	<a href="mailto:Kalthense@c.in">Kalthense@c.in</a>	7	

21. From the above table, remove the invalid phone number which are not in the proper format of having 10 digits, no characters and the phone numbers which are starting with 9/8/7/6
22. From the above table, put the phone numbers in US format.
23. From the above table, format the customer name.
24. From the above table, select only the middle name from customer name
25. From the above table, format/ validate the mail IDs

## Questions from 26 to 50 :: SQL

A. Create a **Supplier** table as shown below : (for questions from 26 to 35)

<b>Sup_No</b> <b>(Primary Key)</b>	<b>Sup_Name</b>	<b>Item_Supplied</b>	<b>Item_Price</b>	<b>City</b>
S1	Suresh	Keyboard	400	Hyderabad
S2	Kiran	Processor	8000	Delhi
S3	Mohan	Mouse	350	Delhi
S4	Ramesh	Processor	9000	Bangalore
S5	Manish	Printer	6000	Mumbai
S6	Srikanth	Processor	8500	Chennai

26. Write sql query to display Supplier numbers and Supplier names whose name starts with 'R'
27. Write sql query to display the name of suppliers who supply Processors and whose city is Delhi.
28. Write sql query to display the names of suppliers who supply the same items as supplied by Ramesh.
29. Write sql query to increase the price of Keyboard by 200.
30. Write sql query to display supplier numbers, Supplier names and itemprice for suppliers in delhi in the ascending order of itemprice.
31. Write sql query to add a new column called CONTACTNO.
32. Write sql query to delete the record whose itemprice is the lowest of all the items supplied .
33. Create a view on the table which displays only supplier numbers and supplier names.
34. Write sql query to display the records in the descending order of itemprice for each itemsupplied.
35. Write sql query to display the records of suppliers who supply items other than Processor or Keyboard.

Below are the details of Employees working for a software Company. (For questions from 36 to 45)

Create the table called **EmpDetails** with the below mentioned details.

<b>Eid (Primary Key)</b>	<b>Ename</b>	<b>DOB</b>	<b>Designation</b>	<b>Salary</b>	<b>DOJ</b>
E101	Suma	29-Dec-89	Designer	20000	01-Apr-10
E102	Amit	10-Jan-95	Programmer	25000	18-Feb-18
E103	Payal	15-Aug-85	Tester	35000	13-Jun-11
E104	Kiran	20-Apr-90	Programmer	40000	7-Mar-14
E105	Meenal	29-May-83	DBA	50000	9-Dec-11
E106	Sheila	1-May-70	Analyst	60000	25-Sep-18
E107	Swamy	13-Jan-85	Programmer	45000	14-Feb-16
E108	Sushma	22-Dec-76	DBA	45000	31-Jan-12

36. Write sql query to display all the employees whose designation is Programmer.
37. Write sql query to display employees who have joined after 2014.
38. Write sql query to display all the employees whose name ends with 'a'.
39. Write sql query to display the total salary of all the employees whose designation is programmer.
40. Write sql query to display all the employee names in upper case.
41. Write sql query to display the details of the employee with highest experience.
42. Write sql query to display the details of the employees whose name contains 'ee'.
43. Write sql query to increase the salaries of employees by 5000 whose designation is DBA.
44. Write sql query to display the employees whose salary is more than the average salary of all the employees.
45. Write sql query to display the record in the following format: xxxxxxxx is working as xxxxxxxxxxxxxxx with a Salary ofRs.xxxxxxxx  
eg: Suma is working as Designer with a Salary of Rs. 20000.

**Create the two tables as shown below with the given constraints: (for questions 46 to 50)**

Table name: **Employee**      Tablename: **Department**

Constraints: Eid is Primary key and DeptId is foreign key    Constraints: DeptId Primary key

Salary should not be less than 10000    and Dname is NOT NULL

<b>Eid (Primary Key)</b>	<b>Ename</b>	<b>DeptId (Foreign Key)</b>	<b>Designation</b>	<b>Salary ( &gt; 10000)</b>	<b>DOJ</b>
101	Sudha	D2	Clerk	20000	01-Apr-10
102	David	D1	Manager	50000	18-Feb-18
103	Preethi	D3	Clerk	35000	13-Jun-11
104	Kiran	D1	Salesman	20000	7-Mar-14
105	Meenal	D2	Clerk	50000	9-Dec-11
106	Sunitha	D3	Manager	60000	25-Sep-18
107	Akhil	D3	Clerk	25000	14-Feb-16
108	Sushma	D2	Manager	45000	31-Jan-12

<b>DeptId (Primary Key)</b>	<b>Dname</b>
D1	Sales
D2	Marketing
D3	Finance

46. Write sql query to display all the employees who earn more than average salary of all the employees in the company.
47. Write sql query to display the fields Eid, Ename and Dname.
48. Write sql query to sort the employee table in the descending order of salaries.
49. Write sql query to list all the job designations in the employee table without repetitions.
50. Write sql query to display all the employee details Department wise and in the ascending order of their salaries.