Computer Lab – Revised Practical Question Bank
FACULTY OF COMMERCE, OSMANIA UNIVERSITY

B.Com (Business Analytics) III Semester
Data Analytics Modelling

Time: 60 Minutes

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

MS Excel or Power query
Table for 1-10 Questions

Deptname – EmpID	Employee Name	Gender	Date of Birth	Date of Hiring	Salary
D – 45001	anne hardy	F	03-01-1977	01-06-2006	45,000.00
HR – 45001	RAM Sastry	m	23-04-1999	01-02-2007	25,000.00
S – 45203	syam mohan	m	30-11-1987	06-08-2005	24,000.00
O – 45301	riya SHAarma	f	29-05-1993	13-01-2010	22,000.00
HR – 45005	John Doe	M	25-09-1997	28-10-2014	20,001.00
HR – 45010	jack McGinnis	M	04-06-1988	21-09-2012	15,800.00
S – 45210	soe green	m	20-08-1982	15-11-2013	20,345.00
S – 45220	mc george	F	26-12-1996	12-02-2008	35,789.00
S – 45230	sam peter	M	22-11-1994	15-05-2016	28,349.00
D – 45004	madhuri Dev	F	13-02-1984	01-09-2008	30,000.00

I. Format the following from Sheet I of DAM Exam Sheet.

1. Split the column Department –Emp. ID into two columns.
2. Format the Employee Name column.
3. Format the Gender column.
4. Format the date to YYYY/MM/DD"
5. Find the Number of years of service of service for an employee in the organisation as on date.
6. Insert the currency "$" symbol in the salary column.
7. Remove the decimal place in the salary column.
8. If an employee has to retire at the age of 60, when will they retire.
9. Employees whose experience is greater than 10 years will get a bonus of 10%. Calculate the bonus paid.
10. How many employees are there in each department and what is their total salary department wise.

II. Table for 11-15 Questions

Employee ID	First Name	Last Name	Gender (M/F)	Age(Years)	Date of Hiring (DD/MM/YYYY)	Salary in $
45001	anne	hardy	F	45	06-01-2010	4,50,000
45001	Ram	sastry	M	23	01-05-2000	1,25,000
45203	SHYAM	max	M	35	01-08-2005	2,15,000
45932	Riya	sharma	F	29	01-03-2010	2,12,000
45020	Jai	dixit	M	48	08-10-2000	4,65,000
45006	Madhuri	dEv	F	38		3,10,000

45078	Somya Varma	varma	F	56	01-10-1990	6,50,000
45039	Raju	beri	M	43	02-08-1999	4,23,000
45020	Jai	dixit	M	48	08-10-2000	4,65,000
45038	Kalyani	rao	F	37	03-10-2010	3,12,000
45037	Sam	joseph	M		04-02-2006	3,20,000
45059	Poter	Parker	M	39	03-10-2008	2,89,000
45012	Siddu	rao	M	42	15-10-2007	4,12,000

11. Remove blank rows
12. Highlight blank cells and fill with "No Data"
13. Concatenate First Name and Last Name columns
14. Format the names of the concatenated column.
15. List out all the employees whose salary is greater than $3,00,000 and less than $4,00,000 give allowances of 5% and above $4,00,000 give allowances of 10%. Find the total allowances paid by the company.

III. Table for Question No. 16-20

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 MorenoTaquer¡a	antonio moreno	mataderos 2312	Mexico city	5023	Mexico
678	Around the Horn	thomas hardy	120 Hanover Sq.	new yoork	WA1 1DP	USA
2314	Berglunds snabola	Christina Berglund	Berguvsv,,gen 8	Sydney	33-22	Australia
3657	Amit Mishra	Maria Anders	Obere Str. 57	Sydney	65-332-3	Australia
7890	williami sanuo	Ana Trujillo	Avda. de la Constitucion 2222	Sydney	43433	Australia
56789	Sonio Moreno	Antonio Moreno	120 Jefferson St.,Riverside	new jersy	8075	US
3657	Amit Mishra	Maria Anders	Obere Str. 57	Sydney	65-332-3	Australia
2314	Berglunds snabbkp	Christina Berglund	Berguvsvgen 8	Sydney	33-22	Australia

16. Using Excel, concatenate the columns Street name and city.
17. Insert "C-" in the left side of the customer Id in customer name column of the above data.
18. Using Excel Remove Extra spaces and format the names of customer name column.
19. From the above table remove the duplicate rows.
20. From the above table remove the customer whose customer ID is not a 4 digit number

IV. Table for Question No. 20-25

Employee	Employee	Gender	Age	Year of	Date of	Salary

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	27	2005	12-07-2006	3,45,000
A45037	Anu Devara	F	58	1985	12-09-2008	6,95,000

21. From the above data in Excel, Concatenate the Headers.
22. From the above data in Excel, convert the numerals in Year column to text format.
23. From the above table in Excel, highlight the blank spaces and fill it with "Not Available".
24. From the above table in Excel, select only the first name from the Employee name and paste in anothercolumn.
25. Create Email Addresses using lower case and underscore in between the names and end with "@gmail.com". (For example priya_dixit@gmail.com)

V. Table for 26 to 30 Questions:

Customer Name	Company name	Phone number	Address, City, State, ZIP Code	Amount $	Shipment Date	Order Date
Jim van der Mheen	Stokes, Rutherford and Bauch	7282727491	939 clear edge, mesita, wv, 14424	1,00,003	25-05-2016	2016-04-19
Shenita Daven port	Waelchi Inc	2676259210	873 iron third harbor, whelen springs, nm, 37783	1,83,593	02-08-2016	2016-07-03
Jimmie Mc Clure	Braun, Crooks and Ortiz	8373183928	856 forge overpass, annandale, nm, 08463	1,59,194	30-10-2016	2016-10-21
Mary Belle Serrano	Schamberger, Yost and Dach	8853887212	515 silver highlands, natalbany, wy, 00462	1,80,394	20-04-2016	2016-04-01
Vito van Helpen	Mann, Sauer and Sauer	3507306802	221 jagged harbor, franklin borough, ny, 80069	1,25,979	10-08-2016	2016-07-18
Salvatore Van Egmond	Schmidt-Marks	5308189072	p.o. box 51573, berthold, sd, 16229	1,11,804	30-08-2016	2016-07-29
Hay Wood Meza	Huels, Schuster and Daugherty	8102106924	p.o. box 42524, matteson village, mn, 55503	1,08,063	25-02-2016	2016-01-15
Margrett Cowan	Armstrong Group	8661697766	249 old passage, james village, id, 64602	1,74,882	05-08-2017	2017-07-15
Jerold MC Hooper	Muller, Lakin and Bogan	9291511240	843 old camp, new holland village, wy, 32125	1,30,140	05-04-2017	2017-03-26
Leandro van der Woerd	Mueller and Sons	671452981l3	956 lazy grove, ouray, mi, 38713	2,12,181	18-03-2017	2017-01-18
Haywood Huber	Braun, Crooks and Ortiz	7702510897	p.o. box 30184, wolfe, ok, 08774	1,52,568	20-06-2017	2017-05-31
Particia Veen Hof	Schmidt-Marks	8041074292	897 amber bluff, huntley, in, 29911	1,52,088	08-08-2017	2017-08-02

Yvone Esparza Brook	Weber, Kuhlman and Hirthe	2099450674	937 indian kennedy lawn, south milwaukee, me, 85635	1,85,383	13-12-2017	2017-12-0
Yvone Esparza	Weber, Kuhlman and Hirthe	61616985o2	670 lazy cider, glen raven, nc, 19967	1,39,493	2017-05-30	2017-04-3
Jame Oosthuijzen	Graham, Towne and Monahan	4729853826	370 eighth mews, villano beach, nv, 52255	1,83,377	2017-09-20	2017-09-0
Filiberto Kues	Schmidt-Marks	8756599072	325 iron bluff heights, walford, vt, 11877	1,98,796	2017-05-20	2017-05-1

26. From the above table, remove the invalid phone number which are not in the proper format ofhaving 10 digits, no characters and the phone numbers which are starting with 9/8/7/6
27. From the above table, put the phone numbers in US format.
28. From the above table, split the Address column into Address, City, State and ZIP code.
29. From the above table, select only the middle name from customer name.
30. From the above table, calculate the number of days required for shipment.

Power Pivot and Power Query Questions:

VI. Power Query link(Order data set 1)
Power Query link (Order data set 2)

Use Power Query Editor to answer the following questions:

31. Remove the rows which has improper data.
32. Split the column Customer ID into Customer ID and Customer Name.
33. Remove the currency Symbol and the decimals (Give reasons for removing them) from the column Cookies shipped.
34. Calculate the profits for each of the customer.
35. How many days does it take for the delivery of orders.
36. Load the second data set to the existing data set1.
37. Create Pivot table for the cookies shipped year wise and quarter wise.
38. Create pivot table and graph for the cookies shipped customer wise.
39. Create pivot table to know the top 5 customers.
40. Crate pivot table to know the relationship between the sales and the delivery of the orders.

VI. Power Query and Power Pivot Link (Sales_2018)
Power Query and Power Pivot Link (Sales_ 2019)

41. In Power Query Editor concatenate the first two rows.
42. In Power Query Editor Split the column ship mode and container.
43. What is percentage of total shipping amount for each order priority.
44. Find the bottom 3 Shipment Mode and Container by total Unit Sell Price.
45. Sort Customer ID by Unit Sell Price in ascending order.
46. Calculate the number days for shipment and establish a relationship between the number days for shipment and shipment amount.
47. Find the total selling price customer wise?
48. Has Order priority has any influence on the shipping amount.
49. Which shipment mode has more customers?
50. Is order Id determined by discount percent?

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