

LOVELY PROFESSIONAL UNIVERSITY

Academic Task-2

School of Computer Science and Engineering Faculty of Technology

Name of the faculty member : Kewal Krishan(11179)

Course Code: INT325

Course Title: Informatica Data Integration

Term: 19202

Max. Marks:30

Date of Submission: 15 April 2020

Instructions for Assignment Submission

1. The assignment is to be done on individual basis (no groups). Each student will submit the assignment of questions that are assigned to them. There is no option of changing the questions.
3. The assignment submission mode is Online only. Student has to upload the assignment on or before the last date on UMS only. No submission via e-mail or pen-drive or any media will be accepted.
4. Non-submission of assignment on UMS till the last date will result in ZERO marks.
5. The student is supposed to make the written assignment on his/her own. If it is discovered at any stage that the student has used unfair means like copying from peers or copy pasting the answer taken from internet etc. ZERO marks will be awarded to the student.
6. The student who shares his assignment with other students (either in same section or different section) will also get ZERO marks
7. Student has to maintain a pdf file including the question and the screenshot of the answer solved by them. In case two students have the same screenshot, it will lead to zero marks for both
8. Student has to attempt both the parts of the question allocated to him/her
9. You must write your Section, Roll No, Registration No and question number on your file.
10. File Name (PDF) should be your Section_RollNo. For Example, KM026A01.

Question Allocation

Registration Number	Question No	Registration Number	Question No	Registration Number	Question No
11700987	Q2	11707776	Q1	11703024	Q4
11701092	Q5	11707999	Q3	11703961	Q11
11701394	Q7	11709405	Q14	11704310	Q12

11702222	Q13	11709502	Q8	11704426	Q5
11702348	Q1	11711693	Q6	11704435	Q13
11702448	Q6	11712588	Q12	11704656	Q15
11703582	Q8	11714095	Q11	11708284	Q14
11704058	Q14	11715268	Q13	11708967	Q6
11704250	Q3	11715322	Q7	11710408	Q12
11704424	Q9	11717314	Q2	11712879	Q7
11704453	Q12	11717741	Q10	11713613	Q1
11705166	Q4	11307522	Q5	11716933	Q3
11706226	Q10	11701502	Q8	11717461	Q2
11706889	Q15	11702758	Q9	11717468	Q9
11707134	Q11	11703016	Q10	11707937	Q5

QUESTIONS

Q1)

A) Lets suppose I am having a dataset “student” containing 5 columns(stdid,fullname, Marks,Department,Subject). How we can calculate the average marks of students department wise using mapping and Workflow

B) What is the importance of Informatica Power Center client?

Q12)

A) Lets suppose I am having a dataset “Employees” containing 5 columns(Eid,fullname, Salary,Department,JoiningDate). How we can extract only those records from the source who is having maximum salary in each department using mapping and Workflow

B) What is the difference between Mapping and Mapplet?

Q3)

A) Lets suppose I am having a dataset containing 5 columns(id,fullname, Salary,Address,MobileNo). In Dept table there are four departments (dept no 40,30,20,10). Separate the record to different target department wise using mapping and workflow

B) What is the role of Workflow Designer is Power Center Client?

Q4)

A) Create a mapping that performs the following operation using multiple transformations:

1. List the total number of Bronze Medals in Weightlifting by each country
2. List the total number of Medals won by USA year wise
3. Display the count of Total Medals distributed till now

B) What are the advantages of Informatica over other ETL tools?

Q5)

A) Using the careers dataset. Create a mapping that performs the following operation using multiple transformations

- 1) What is the total count of the students belonging to software Engineer profession
- 2) What is average age of the people working as Data scientist
- 3) What is the minimum age of the student belonging to Thapar university

B) What is the role played by workflow monitor? Also explain what is session log?

Q6)

A) Create a mapping that performs the following operation using multiple transformations:

1. Display the countries whose sum of gold medals is more than 20
2. Display the countries who have won less than 10 medals till now
3. how many gold medal in swimming country wise

B) What is the difference between domain and node in informatica power center architecture?

Q7)

A) Using Movies Ratings. Create a Mapping to complete the following task

- a) Find the data where critic rating is greater than 50
- b) Find the data where year of release is 2007

B) What is the difference between join and union transformation?

Q8)

A) Using movies dataset Find the data where year of release is greater than 2009 and find the top 5 movies according to budget.

B) What do you mean by domain in power center client architecture?

Q9)

A) Using movies dataset Find the data where movie genre is "Comedy" and then calculate a tax of there movies.(tax will be 5 percent of the budget)

B) What is power center repository in informatica?

Q10)

A) Using movies dataset create a separate file of the movies where genre is "Action" and other data in separate file

b) What is star schema in data warehousing?

Q11)

A) Using movies dataset Find the bottom 5 movies where audience rating is less than 40. And, then sort this data in ascending order using audience rating

b) What is snowflake schema in data warehousing?

Q12)

A) Using movies dataset You have to add a new column tax in this dataset(tax will be 10 percent of the budget)

b) What is fast constellation schema in data warehousing?

Q13)

A) Using Covid-19 dataset, create a mapping to find out the country with highest and lowest number of Confirmed cases.

b) What is the use of source analyzer and target designer in power center client?

Q14)

A) Using Covid-19 dataset, create a mapping to find out the total confirmed cases in Canada

b) What is the use of source qualifier ?

Q15)

A) Using covid-19 dataset, sort the data in descending order by conformed cases and also rank the top 5 country having maximum recovered cases

b) What is the difference between filter and router transformation?