Q.1. Create a job to load the first 3 records from a flat file into a target table?

Q.2. Create a job to load the last 3 records from a flat file into a target table?

Q.3. Create a job to load the first record from a flat file into one table A, the last record from a flat file into table B and the remaining records into table C?

Q.4. Consider the following products data which contain duplicate records.

A

B

C

C

B

D

B

Answer the below questions

Q.4.1. Create a job to load all unique products in one table and the duplicate rows in to another table.

The first table should contain the following output

A

D

The second target should contain the following output

B

B

B

C

C

Q.4.2. Create a job to load each product once into one table and the remaining products which are duplicated into another table.

The first table should contain the following output

A

B

C

D

The second table should contain the following output

B

B

C

Q.5. Consider the following employees data as source?

employee_id, salary

10, 1000

20, 2000

30, 3000

40, 5000

Q.5.1. Create a job to load the cumulative sum of salaries of employees into target table?
The target table data should look like as

employee_id, salary, cumulative_sum

10, 1000, 1000

20, 2000, 3000

30, 3000, 6000

40, 5000, 11000

Q.5.2. Create a job to get the pervious row salary for the current row. If there is no pervious row exists for the current row, then the pervious row salary should be displayed as null.

The output should look like as

employee_id, salary, pre_row_salary

10, 1000, Null

20, 2000, 1000

30, 3000, 2000

40, 5000, 3000

Q.5.3. Create a job to get the next row salary for the current row. If there is no next row for the current row, then the next row salary should be displayed as null.

The output should look like as

employee_id, salary, pre_row_salary

10, 1000, 2000

20, 2000, 3000

30, 3000, 5000

40, 5000, Null

Q.5.4. Create a job to find the sum of salaries of all employees and this sum should repeat for all the rows.

The output should look like as

employee_id, salary, pre_row_salary

10, 1000, 11000

20, 2000, 11000

30, 3000, 11000

40, 5000, 11000

Q.6. Consider the following employees table as source

department_no, employee_name

20, R

10, A

10, D

20, P

10, B

10, C

20, Q

20, S

Q.6.1. Create a job to load a target table with the following values from the above source?

department_no, employee_list

10,A

10,A,B

10,A,B,C

10,A,B,C,D

20,A,B,C,D,P

20,A,B,C,D,P,Q

20,A,B,C,D,P,Q,R

20,A,B,C,D,P,Q,R,S

Q.6.2. Create a job to load a target table with the following values from the above source?

department_no, employee_list

10,A

10,A,B

10,A,B,C

10,A,B,C,D

20,P

20,P,Q

20,P,Q,R

20,P,Q,R,S

Q.6.3. Create a job to load a target table with the following values from the above source?

department_no, employee_names

10,A,B,C,D

20,P,Q,R,S

Q.7 Consider the following product types data as the source.

Product_id, product_type

10,video

10,Audio

20,Audio

30,Audio

40,Audio

50,Audio

10,Movie

20,Movie

30,Movie

40,Movie

50,Movie

60,Movie

Assume that there are only 3 product types are available in the source. The source contains 12 records and you don't know how many products are available in each product type.

Q.7.1. Create a job to select 9 products in such a way that 3 products should be selected from video, 3 products should be selected from Audio and the remaining 3 products should be selected from Movie.

Q.7.2. In the above problem Q1, if the number of products in a particular product type are less than 3, then you won't get the total 9 records in the target table. For example, see the videos type in the source data. Now design a mapping in such way that even if the number of products in a particular product type are less than 3, then you have to get those less number of records from another product types. For example: If the number of products in videos are 1, then the remaining 2 records should come from audios or movies. So, the total number of records in the target table should always be 9.

Q.8 Create a job to convert column data into row data.

The source data looks like

col1, col2, col3

a, b, c

d, e, f

The target table data should look like

Col

a

b

c

d

e

f

Q.9 Create a job to convert row data into column data.

The source data looks like

id, value

10, a

10, b

10, c

20, d

20, e

20, f

The target table data should look like

id, col1, col2, col3

10, a, b, c

20, d, e, f