

RISHAB INFORMATICA GROUP
EXPRESSION TRANSFORMATION EXERCISES

PLEASE WATCH EXPRESSION TRANSFORMATION VIDEO

AND PRACTICE IN BOTH INFORMATICA POWER CENTER & ALSO IICS

CREATE TABLE STUDENT

```
(  
  STUDENT_ID NUMBER(6),          99455858517  
  FIRST_NAME VARCHAR2(20),  
  LAST_NAME  VARCHAR2(25),  
  EMAIL VARCHAR2(25),  
  PHONE_NUMBER VARCHAR2(20),  
  JOINING_DATE DATE,  
  SPECIALIZATION VARCHAR2(20),  
  STIPEND NUMBER(10,2),  
  BONUS NUMBER(10,2),  
  MANAGER_ID NUMBER(6) ,  
  COORDINATOR_ID NUMBER(10)  
);
```

INSERT THE DATA AS PER THE COLUMNS AS ABOVE

CREATE A TABLE AT STAGE / TARGET AS SAME AS SOURCE TO LOAD THE DATA

CREATE TABLE STAGE.T_STUDENTS AS SELECT * FROM HR.STUDENTS

EXERCISE: 1

1. TAKE & IMPORT STUDENT TABLE AS SOURCE
2. ASSUME PHONE_NUMBER FORMAT IN THE SOURCE AS BELOW

944.800.5273

011.44.1345.829268

3. CONVERT THE PHONE NUMBER IN THE TARGET AS BELOW

515.123.4567 → +91-94480-05273

011.44.1345.829268 → +91-01144-13458-29268

SOLUTION GIVEN AT LAST

EXERCISE 2:

1. OPEN BELOW ATTACHED FILE AS SOURCE AND TARGET TABLE.
2. LOAD THE DOB IN THE TARGET AS HUMAN READABLE FORMAT FROM EPOCH FORMAT IN SOURCE
3. FIND AVERAGE & TOTAL MARK FOR EACH TOTAL



Exp_exercise.xlsx

WHAT IS THIS EPOCH TIME FORMAT ?

IT MEANS UNIX TIME STAMP FORMAT

Hints:

Oracle PL/SQL: SELECT to_date('01-JAN-1970','dd-mon-yyyy')+(1526357743/60/60/24) from dual

Replace 1526357743 with epoch.

`ADD_TO_DATE (TO_DATE('01-JAN-1970','dd-mon-yyyy'),'DD',(DOB/60/60/24))`

Example: Add 5 days to hire_date

`ADD_to_date(HIRE_DATE,'DD',5)`

```
create table s_student_epoch
(
  Stud_id          number,
  stud_name        varchar2(30),
  dob number,
  Maths            number(3),
  Physics          number(3),
  Chemistry        number(3),
  biology number(3)
);
```

```
create table
t_student_epoch
(
  Stud_id          number,
  stud_name        varchar2(30),
  dob date,
  maths            number(3),
  physics          number(3),
  chemistry        number(3),
  biology
  number(3)
);
```

```
select * from t_student_epoch;
```

4. LOAD THE INPUT DATA IN REVERSE ORDER (HINT: GENERATE SEQUENCE NUMBER IN EXP)

Input	output
100	104
101	103
102	102

103

101

104

100

5. GENERATE SEQUENCE NUMBER BY USING EXPRESSION TRANSFORMATION

6. APPLY 10% SALARY INCREMENT FOR FIRST 10 EMPLOYEES IN THE EXPRESSION TRANSFORMATION

HINT: IIF(V_EMP_KEY<=10,SALARY+(SALARY*0.1),SALARY);

Edit Transformations

Transformation Ports Properties Metadata Extensions									
Select transformation:		EXPTRANS							
Transformation type:		Expression							
	Port Name	Datatype	Prec	Sc...	I	O	V	Expression	
1	EMPLOYEE_ID	decimal	6	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EMPLOYEE_ID	
2	FIRST_NAME	nstring	20	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FIRST_NAME	
3	LAST_NAME	nstring	25	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LAST_NAME	
4	EMAIL	nstring	25	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EMAIL	
5	PHONE_NUMBER	nstring	20	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PHONE_NUMBER	
6	HIRE_DATE	date/time	29	9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HIRE_DATE	
7	JOB_ID	nstring	10	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JOB_ID	
8	SALARY	decimal	8	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9	new_SALARY	decimal	10	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SALARY+(SALARY*0.1)	
10	COMMISSION_PCT	decimal	2	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	COMMISSION_PCT	
11	MANAGER_ID	decimal	6	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MANAGER_ID	
12	DEPARTMENT_ID	decimal	4	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DEPARTMENT_ID	
13	v_EMP_KEY	decimal	10	0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	v_EMP_KEY+1	
14	o_EMP_KEY	decimal	10	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	v_EMP_KEY	

7. Input:

ID, Name

1, Sam

2, Ram

3, Raj

2, Aly

1, Joe

Output:

ID	Name
1	Sam,Joe
2	Ram,Aly
3	Raj

ANS FOR FIRST QUESTION:

```
IIF(length(PHONE_NUMBER)=12,'+91-'||substr(REPLACECHR(0,PHONE_NUMBER,'.', ''),1,5))||'-
'||substr(REPLACECHR(0,PHONE_NUMBER,'.', ''),6,5),'+91-
'||substr(REPLACECHR(0,PHONE_NUMBER,'.', ''),1,5))||'-
'||substr(REPLACECHR(0,PHONE_NUMBER,'.', ''),6,5))||'-
'||substr(REPLACECHR(0,PHONE_NUMBER,'.', ''),11,5))
```