Data Wrangling QBS 181 Homework -1

Instructions:

- Print random 10 rows to show these changes. Please also include the code
- Insert the answers directly into this document.
- You may collaborate on the homework but you must write it up yourselves.
- Please save the files in this format:
 - Name of the file should be username(database)_HW1_QBS181
 - Submit it via Canvas.
- 1. Rename all the columns for eg.,
 - a) TriAge to Age
 - b) GenderCode to Gender
 - c) ContactID to ID
 - d) Address1Stateorprovince to State
 - e) TrilmagineCareenrollmentemailsentdate to EmailSentdate
 - f) Trienrollmentcompletedate to Completedate
 - g) Calculate the time (in days) to complete enrollment and create a new column to have this data

	Age	Gender	ID	State	EmailSentdate	Completedate	DaysToComplete
1	32	2	B05CD306-D547-E611-80E6-5065F38BA151	NH	7/12/2016	7/27/2016	15
2	35	NULL	5F9C2AA6-1624-E611-812A-C4346BB59854	NH	5/27/2016	NULL	NULL
3	31	NULL	9A92A7B0-7148-E611-80E7-5065F38B3241	NH	7/12/2016	NULL	NULL
4	54	NULL	805FD306-D547-E611-80E6-5065F38BA151	NH	7/12/2016	NULL	NULL
5	63	NULL	B65FD306-D547-E611-80E6-5065F38BA151	NH	7/12/2016	NULL	NULL
6	34	2	0F52413C-72A0-E611-80E9-5065F38A3B91	NH	11/1/2016	11/5/2016	4
7	40	2	D686A327-A108-E611-811D-C4346BACD1A8	NH	4/22/2016	4/22/2016	0
8	44	NULL	985AD306-D547-E611-80E6-5065F38BA151	NH	7/12/2016	NULL	NULL
9	32	NULL	4293A7B0-7148-E611-80E7-5065F38B3241	NH	7/12/2016	NULL	NULL
10	44	NULL	7A9AA7B0-7148-E611-80E7-5065F38B3241	NH	7/12/2016	NULL	NULL

-- 1 (a:f)

SELECT tri_age AS Age, gendercode AS Gender, contactid AS ID,
 address1 stateorprovince AS State, tri imaginecareenrollmentemailsentdate AS

tri enrollmentcompletedate AS Completedate

NTO shall manuary of

INTO qbs181.mtaylor.Q1

FROM qbs181.dbo.Demographics;

Create a new column "Enrollment Status"

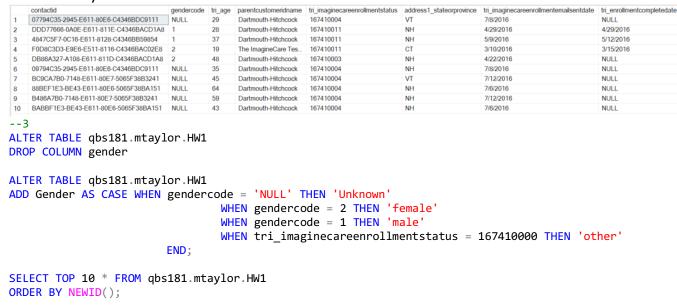
SELECT TOP 10 * FROM qbs181.mtaylor.HW1

ORDER BY NEWID();

- a) Insert Status=Complete :code is 167410011
- b) Insert Status=Email sent :code is 167410001
- c) Insert Status=Non responder: Code is 167410004
- d) Insert Status=Facilitated Enrollment: Code is 167410005
- e) Insert Status= Incomplete Enrollments: Code is 167410002
- f) Insert Status= Opted Out: Code is 167410003
- g) Insert Status= Unprocessed: Code is 167410000

```
h) Insert Status= Second email sent : Code is 167410006
                                                                                                                      tri_enrollmentcompletedate
                                                                                                                                            Enrollment_Status
   5C8AA7B0-7148-E611-80E7-5065F38B3241
                                             .
Dartmouth-Hitchcock
                                                           167410004
                                                                                               7/12/2016
                                                                                                                      NULL
                                                                                                                                       NULL
                                                                                                                                            Non responde
                               NULL
    085BD306-D547-E611-80E6-5065F38BA151
                                        41
                                             Dartmouth-Hitchcock
                                                            167410004
                                                                                               7/12/2016
                                                                                                                                            Non responder
                                                                                                                      NULL
                                                                                                                                       NULL
    33298D77-EF80-E611-80EE-5065F38B3241
                                             Dartmouth-Hitchcock
                                                           167410011
                                                                              NH
                                                                                              9/22/2016
                                                                                                                      9/25/2016
                                                                                                                                            Complete
                                             Dartmouth-Hitchcock
    0B8701DC-7D38-E611-80E4-C4346BDC0341
                                                            100000001
                                                                                               6/22/2016
                                                                                                                                       NULL
                                                                                                                                            NULL
                                                                                                                      NULL
    9889F3CB-5111-F611-811B-C4346BAC02F8
                               NULL
                                             Dartmouth-Hitchcock
                                                           167410004
                                                                                              5/3/2016
                                                                                                                      NULL
                                                                                                                                       NULL
                                                                                                                                            Non responde
    168AA7B0-7148-E611-80E7-5065F38B3241
                                             Dartmouth-Hitchcock
                                                                                               7/12/2016
                                                                                                                                       NULL
                                                                                                                                            Non responder
                                                                                                                      NULL
    11794C35-2945-E611-80E6-C4346BDC9111
                               NULL
                                             Dartmouth-Hitchcock
                                                           167410004
                                                                                               7/8/2016
                                                                                                                      NULL
                                                                                                                                       NULL
                                                                                                                                            Non responde
    C8534411-A7F7-E511-811C-FC15B42886E8
                                             The ImagineCare Tes.
                                                                                               4/1/2016
                                                                                                                      4/1/2016
                                                                                                                                            Complete
                               NULL
    057C4C35-2945-E611-80E6-C4346BDC9111
                                             Dartmouth-Hitchcock
                                                           167410004
                                                                                               7/8/2016
                                                                                                                      NULL
                                                                                                                                       NULL
                                                                                                                                            Non responde
                                                                                                                                            Complete
   DB40A719-F3C6-E611-80F5-5065F38A4B01
                                             ProdSquad Testers N.
                                                                                               12/20/2016
10
-- 2
ALTER TABLE qbs181.mtaylor.HW1
ADD Enrollment_Status AS CASE WHEN tri_imaginecareenrollmentstatus = 167410011 THEN
'Complete'
                                                                           WHEN tri_imaginecareenrollmentstatus =
167410001 THEN 'Email sent'
                                                                           WHEN tri_imaginecareenrollmentstatus =
167410004 THEN 'Non responder'
                                                                           WHEN tri imaginecareenrollmentstatus =
167410005 THEN 'Facilitated Enrollment'
                                                                           WHEN tri imaginecareenrollmentstatus =
167410002 THEN 'Incomplete Enrollments'
                                                                           WHEN tri imaginecareenrollmentstatus =
167410003 THEN 'Opted Out'
                                                                           WHEN tri imaginecareenrollmentstatus =
167410000 THEN 'Unprocessed'
                                                                           WHEN tri imaginecareenrollmentstatus =
167410006 THEN 'Second email sent'
                                                               END:
```

- 3. Create a new Column "Gender"
 - a) Insert Gender=female if code=2
 - b) Insert Gender=male if code=1
 - c) Insert Gender=other if code =167410000
 - d) Insert Gender=Unknown if code ='NULL'



Gender

male

female

female

Unknow

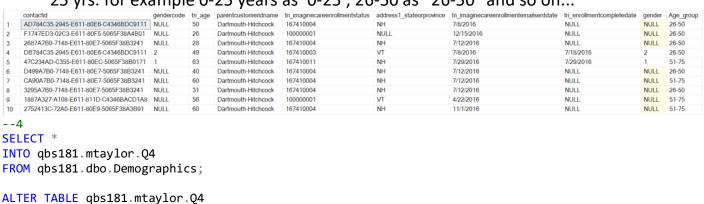
Unknown

Unknown

Unknown

Unknown

4. Create a new column "Age group" and create age groups with an interval of 25 yrs. for example 0-25 years as '0-25', 26-50 as "26-50" and so on...



WHEN tri_age < 51 THEN '26-50' WHEN tri_age < 76 THEN '51-75'

ELSE '75+'

```
END;
SELECT TOP 10 * FROM qbs181.mtaylor.Q4
ORDER BY NEWID();
```

ADD Age_group AS CASE WHEN tri_age < 25 THEN '0-25'