

healthcare (4) - Excel

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Calibri 12 A⁺ Font Font Merge & Center Alignment Number Conditional Formatting Format as Table Cell Styles Insert Delete Format AutoSum Fill Sort & Find & Filter Clear Create PDF Sign WPS PDF

A1 Customer ID

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Customer ID	name															
2	Id1	Hawks, Ms. Kelly															
3	Id2	Lehner, Mr. Matthew D															
4	Id3	Lu, Mr. Phil															
5	Id4	Osborne, Ms. Kelsey															
6	Id5	Kadala, Ms. Kristyn															
7	Id6	Baker, Mr. Russell B.															
8	Id7	Macpherson, Mr. Scott															
9	Id8	Hallman, Mr. Stephen															
10	Id9	Moran, Mr. Patrick R.															
11	Id10	Benner, Ms. Brooke N.															
12	Id11	Fierro Vargas, Ms. Paola Andrea															
13	Id12	Franz, Mr. David															
14	Id13	Foster, Mr. Wade															
15	Id14	Tenorio, Mr. Franklin															
16	Id15	Rios, Ms. Leilani M.															
17	Id16	Viau-Dupuis, Mr. Philippe															
18	Id17	Cronin, Ms. Jennifer A.															
19	Id18	Noordstar, Ms. Christina M.															
20	Id19	Boudalia, Mr. Said Sr.															
21	Id20	Flor, Mr. John															
22	Id21	Fennon, Mr. Myles															

Customer Names Medical Examinations Hospitalisation Details

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Customer ID

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Customer ID	BMI	HBA1C	Heart Issues	Any Transplants	Cancer history	NumberOfMajorSurgeries	smoker									
2	Id1	47.41	7.47	No	No	No	No major surgery	yes									
3	Id2	30.36	5.77	No	No	No	No major surgery	yes									
4	Id3	34.485	11.87	yes	No	No	2	yes									
5	Id4	38.095	6.05	No	No	No	No major surgery	yes									
6	Id5	35.53	5.45	No	No	No	No major surgery	yes									
7	Id6	32.8	6.59	No	No	No	No major surgery	yes									
8	Id7	36.4	6.07	No	No	No	No major surgery	yes									
9	Id8	36.96	7.93	No	No	No	3	yes									
10	Id9	41.14	9.58	yes	No	Yes	1	yes									
11	Id10	38.06	10.79	No	No	No	No major surgery	yes									
12	Id11	37.7	5.96	yes	No	No	2	yes									
13	Id12	42.13	11.9	No	No	No	No major surgery	yes									
14	Id13	40.92	8.41	No	No	No	No major surgery	yes									
15	Id14	40.565	7.02	No	No	No	No major surgery	yes									
16	Id15	36.385	7.59	yes	No	No	2	yes									
17	Id16	39.9	11.32	No	No	No	No major surgery	yes									
18	Id17	33.8	7.67	No	No	No	3	yes									
19	Id18	36.765	7.29	yes	No	Yes	1	yes									
20	Id19	36.955	4.72	yes	No	No	1	yes									
21	Id20	42.9	11.41	No	No	No	No major surgery	yes									
22	Id21	36.3	11.5	yes	No	No	2	yes									
23	Id22	32.2	6.22	yes	No	No	2	yes									

Customer Names Medical Examinations Hospitalisation Details

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Customer ID	year	month	date	children	charges	Hospital tier	City tier	State ID											
2	Id2335	1992	Jul	9	0	563.84	tier - 2	tier - 3	R1013											
3	Id2334	1992	Nov	30	0	570.62	tier - 2	tier - 1	R1013											
4	Id2333	1993	Jun	30	0	600	tier - 2	tier - 1	R1013											
5	Id2332	1992	Sep	13	0	604.54	tier - 3	tier - 3	R1013											
6	Id2331	1998	Jul	27	0	637.26	tier - 3	tier - 3	R1013											
7	Id2330	2001	Nov	20	0	646.14	tier - 3	tier - 3	R1012											
8	Id2329	1993	Jun	1	0	650	tier - 3	tier - 3	R1013											
9	Id2328	1995	Jul	4	0	650	tier - 3	tier - 3	R1013											
10	Id2327	2002	Nov	29	0	668	tier - 3	tier - 2	R1012											
11	Id2326	1997	Nov	9	0	670	tier - 3	tier - 3	R1013											
12	Id2325	2001	Sep	12	0	687.54	tier - 3	tier - 2	R1013											
13	Id2324	1999	Dec	26	0	700	?	tier - 3	R1013											
14	Id2323	1999	Dec	14	0	722.99	tier - 3	tier - 1	R1013											
15	Id2322	2002	?	19	0	750	tier - 3	tier - 1	R1012											
16	Id2321	1993	Aug	9	0	760	tier - 3	tier - 1	R1013											
17	Id2320	1996	Oct	22	0	760	tier - 3	tier - 3	R1013											
18	Id2319	1993	Jun	28	0	770	tier - 3	tier - 3	R1013											
19	Id2318	1996	?	18	0	770.38	tier - 3	?	R1012											
20	Id2317	1995	Dec	7	0	773.54	tier - 3	tier - 2	R1013											
21	Id2316	2004	Oct	7	0	830.52	tier - 3	tier - 2	R1011											
22	Id2315	2000	Nov	18	0	865.41	tier - 3	tier - 1	R1013											
23	Id2314	1993	Nov	27	0	896.21	tier - 3	tier - 1	R1013											

Customer Names Medical Examinations Hospitalisation Details

READY 100%

Project Steps and Objectives:

Data Cleaning:

- 1) Check for the number of missing values marked with '?' in each column of the "Medical Examinations" Table and "Hospitalization Details" Table.
- 2) Fill in the missing values of 'month' with Sep and 'year' with its average rounded to the nearest integer.
- 3) Determine the most frequently occurring values in the 'smoker', 'Hospital tier' and 'City tier' columns, and fill in the missing values accordingly.

4) If any 'State ID' values are missing, consider filling them with 'Unknown' or using another appropriate strategy.

Data Transformation:

1) Split the 'names' column in the "Customer Names" Table into 3 meaningful columns: 'Title', 'First Name', and 'Last Name'.

2) Convert the "NumberOfMajorSurgeries" column in the "Medical Examinations" Table to numerical data by replacing non-numeric characters with meaningful numerical values.

3) Check for inconsistencies in the 'Heart Issues' and 'smoker' columns and propose corrective actions if necessary.

4) Create a new column named "Weight Status" that categorizes BMI into different categories as below:

BMI Weight Status

Below - 18.5 -Underweight

18.5 – 24.9 - Normal Weight

25.0 – 29.9 - Overweight

30.0 and Above Obesity

5) Create a new column named "Diabetes Status" and fill it as per the information given below:

HbA1C Diabetes Status

Below - 5.7 Normal

5.7 – 6.4 - Prediabetes

6.5 and Above Diabetes

6) Merge 'year', 'month' and 'date' columns in the "Hospitalization Details" Table into one column named 'Date of Birth' and format it in 'DD-MMM-YYYY' custom format.

7) Calculate the 'Age' of each customer based on their 'Date of Birth' and the date of collection of the dataset, which is 8th June 2023. (Hint: Use the DATEDIF function)

8) Format 'charges' column as currency (\$).

Customer ID	Name	Title	First Name	Last Name
Id1	Hawks, Ms. Kelly	Ms	Hawks	Kelly
Id2	Lehner, Mr. Matthew D	Mr	Lehner	Matthew D
Id3	Lu, Mr. Phil	Mr	Lu	Phil
Id4	Osborne, Ms. Kelsey	Ms	Osborne	Kelsey
Id5	Kadala, Ms. Kristyn	Ms	Kadala	Kristyn
Id6	Baker, Mr. Russell B.	Mr	Baker	Russell B
Id7	Macpherson, Mr. Scott	Mr	Macpherson	Scott
Id8	Hallman, Mr. Stephen	Mr	Hallman	Stephen
Id9	Moran, Mr. Patrick R.	Mr	Moran	Patrick R
Id10	Benner, Ms. Brooke N.	Ms	Benner	Brooke N
Id11	Fierro Vargas, Ms. Paola Andrea	Ms	Fierro Vargas	Paola Andrea
Id12	Franz, Mr. David	Mr	Franz	David
Id13	Foster, Mr. Wade	Mr	Foster	Wade
Id14	Tenorio, Mr. Franklin	Mr	Tenorio	Franklin
Id15	Rios, Ms. Leilani M.	Ms	Rios	Leilani M
Id16	Viau-Dupuis, Mr. Philippe	Mr	Viau-Dupuis	Philippe
Id17	Cronin, Ms. Jennifer A.	Ms	Cronin	Jennifer A
Id18	Noordstar, Ms. Christina M.	Ms	Noordstar	Christina M
Id19	Boudalia, Mr. Said Sr.	Mr	Boudalia	Said Sr
Id20	Flor, Mr. John	Mr	Flor	John
Id21	Fannon, Mr. Miles	Mr	Fannon	Miles
Id22	Fannon, Mr. Miles	Mr	Fannon	Miles

Customer ID	BMI	Weight Status	HBA1C	Diabetes Status	Heart Issue	Any Transplant	Cancer history	No. Of Major Surgeries	smoker
Id1	47.41	Obesity	7.47	Diabetes	No	No	No	0	Yes
Id2	30.36	Obesity	5.77	Prediabetes	No	No	No	0	Yes
Id3	34.485	Obesity	11.87	Diabetes	Yes	No	No	2	Yes
Id4	38.095	Obesity	6.05	Prediabetes	No	No	No	0	Yes
Id5	35.53	Obesity	5.45	Normal	No	No	No	0	Yes
Id6	32.8	Obesity	6.59	Diabetes	No	No	No	0	Yes
Id7	36.4	Obesity	6.07	Prediabetes	No	No	No	0	Yes
Id8	36.96	Obesity	7.93	Diabetes	No	No	No	3	Yes
Id9	41.14	Obesity	9.58	Diabetes	Yes	No	Yes	1	Yes
Id10	38.06	Obesity	10.79	Diabetes	No	No	No	0	Yes
Id11	37.7	Obesity	5.96	Prediabetes	Yes	No	No	2	Yes
Id12	42.13	Obesity	11.9	Diabetes	No	No	No	0	Yes
Id13	40.92	Obesity	8.41	Diabetes	No	No	No	0	Yes
Id14	40.565	Obesity	7.02	Diabetes	No	No	No	0	Yes
Id15	36.385	Obesity	7.59	Diabetes	Yes	No	No	2	Yes
Id16	39.9	Obesity	11.32	Diabetes	No	No	No	0	Yes
Id17	33.8	Obesity	7.67	Diabetes	No	No	No	3	Yes
Id18	36.765	Obesity	7.29	Diabetes	Yes	No	Yes	1	Yes
Id19	36.955	Obesity	4.72	Normal	Yes	No	No	1	Yes
Id20	42.9	Obesity	11.41	Diabetes	No	No	No	0	Yes
Id21	36.3	Obesity	11.5	Diabetes	Yes	No	No	2	Yes
Id22	36.3	Obesity	11.5	Diabetes	Yes	No	No	2	Yes

Data Exploration:

→ Customer Names Table:

➤ Are there any duplicate Customer IDs in the dataset? If yes, how many?

➤ How many customers are included in the dataset?

The screenshot shows an Excel spreadsheet with a table of customer data and a summary table. The customer data table has columns for Customer ID, Name, Title, First Name, and Last Name. The summary table, titled 'Data Expolaration', contains two rows of information: 'There is no duplicate values in customer id' and 'Total no.of customers are included in the dataset' with a value of 2335.

Customer ID	Name	Title	First Name	Last Name
Id1	Hawks, Ms. Kelly	Ms	Hawks	Kelly
Id2	Lehner, Mr. Matthew D	Mr	Lehner	Matthew D
Id3	Lu, Mr. Phil	Mr	Lu	Phil
Id4	Osborne, Ms. Kelsey	Ms	Osborne	Kelsey
Id5	Kadala, Ms. Kristyn	Ms	Kadala	Kristyn
Id6	Baker, Mr. Russell B.	Mr	Baker	Russell B
Id7	Macpherson, Mr. Scott	Mr	Macpherson	Scott
Id8	Hallman, Mr. Stephen	Mr	Hallman	Stephen
Id9	Moran, Mr. Patrick R.	Mr	Moran	Patrick R
Id10	Benner, Ms. Brooke N.	Ms	Benner	Brooke N
Id11	Fierro Vargas, Ms. Paola Andrea	Ms	Fierro Vargas	Paola Andrea
Id12	Franz, Mr. David	Mr	Franz	David
Id13	Foster, Mr. Wade	Mr	Foster	Wade
Id14	Tenorio, Mr. Franklin	Mr	Tenorio	Franklin
Id15	Rios, Ms. Lellani M.	Ms	Rios	Lellani M
Id16	Viau-Dupuis, Mr. Philippe	Mr	Viau-Dupuis	Philippe
Id17	Cronin, Ms. Jennifer A.	Ms	Cronin	Jennifer A
Id18	Noordstar, Ms. Christina M.	Ms	Noordstar	Christina M
Id19	Boudalia, Mr. Said Sr.	Mr	Boudalia	Said Sr
Id20	Flor, Mr. John	Mr	Flor	John

Data Expolaration	
There is no duplicate values in customer id	
Total no.of customers are included in the dataset	2335

➔ Medical Examination Table:

- How many customers have a history of cancer?
- How many obese customers have heart issues?
- What is the total number of major surgeries performed on customers?
- Calculate the percentage of customers who have undergone any transplants.
- Find the average HBA1C value of customers who are smokers.

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Q6 =COUNTIF(H2:H2336,"Yes")

	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
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16																			
17																			
18																			
19																			
20																			
21																			
22																			

Customers Names Medical Examinations Hospitalization Details Health Care Donut Chart f ...

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→ Hospitalization details Table:

- Calculate all the Summary statistics for the 'charges' column.
- Find the average hospitalization charges for customers who are more than 50 years old.
- Compare the total charges across different hospital tiers.
- Calculate the average charges for people who have more than 2 children.
- Find the integer average number of children of customers who are less than 40 years old.

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H1565 Unknown

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Customer ID	Date of Birth	Age	children	charges	Hospital tier	City tier	State ID							
2	d999	20-8-1969	53	3	\$ 11,253.42	tier -3	tier -1	R1011							
3	d998	2-10-1981	41	1	\$ 11,255.29	tier -3	tier -1	R1026							
4	d997	11-10-1969	53	3	\$ 11,264.54	tier -3	tier -2	R1011							
5	d996	26-12-1971	51	0	\$ 11,265.71	tier -3	tier -1	R1025							
6	d995	4-10-2004	18	1	\$ 11,272.83	tier -3	tier -2	R1019							
7	d994	14-6-1967	55	0	\$ 11,286.54	tier -3	tier -3	R1024							
8	d993	22-6-1970	52	3	\$ 11,289.11	tier -3	tier -1	R1012							
9	d992	14-11-1988	34	3	\$ 11,294.57	tier -3	tier -1	R1022							
10	d991	25-9-1972	50	4	\$ 11,299.34	tier -3	tier -2	R1011							
11	d990	6-10-1968	54	1	\$ 11,305.93	tier -3	tier -1	R1012							
12	d989	4-9-1962	60	0	\$ 40,309.93	tier -1	tier -3	R1011							
13	d989	22-11-1963	59	0	\$ 11,312.33	tier -3	tier -3	R1012							
14	d988	10-12-1995	27	0	\$ 11,318.57	tier -3	tier -2	R1026							
15	d987	11-7-1963	59	0	\$ 11,319.12	tier -3	tier -1	R1012							
16	d986	20-9-2002	20	0	\$ 11,321.49	tier -3	tier -3	R1012							
17	d985	19-8-1989	33	1	\$ 11,326.71	tier -3	tier -3	R1013							
18	d984	2-11-1968	54	0	\$ 11,344.32	tier -3	tier -2	R1025							
19	d983	12-7-1964	58	0	\$ 11,345.32	tier -3	tier -3	R1011							
20	d982	29-11-1965	57	0	\$ 11,353.23	tier -3	tier -3	R1012							
21	d981	26-9-1965	57	0	\$ 11,356.66	tier -3	tier -3	R1012							
22	d980	4-7-1964	58	0	\$ 11,362.76	tier -3	tier -1	R1011							
23	d98	12-8-1966	56	0	\$ 40,373.74	tier -1	tier -3	R1011							
24	d979	3-7-1964	58	0	\$ 11,363.28	tier -3	tier -1	R1013							
25	d978	13-12-1964	58	0	\$ 11,365.45	tier -3	tier -2	R1011							

Customers Names Medical Examinations Hospitalization Details Health Care Donut Chart f ...

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Summary Statistics for "Charges" column		
Mean	\$	13,559.07
Median	\$	9,634.54
Mode	\$	650.00
Standard Deviation	\$	11,920.11
Minimum	\$	563.84
Maximum	\$	63,770.43
Sum	\$	3,17,68,896.02
Count		2343

Average hospitalization charges of customers who are more than 50 years old	
	\$ 17,856.79

Total charges of different hospital tier	
tier -1	\$ 93,10,917.49
tier -2	\$ 1,58,99,488.89
tier -3	\$ 65,58,489.64

Average charges of people	
	\$ 14,217.52

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H1565 Unknown

Customer ID	Date of Birth	Age	children	charges	Hospital tier	City tier	State ID
ld999	4-9-1962	60	0	\$ 40,309.93	tier-1	tier-3	R1011
ld989	22-11-1963	59	0	\$ 11,312.33	tier-3	tier-3	R1012
ld988	10-12-1995	27	0	\$ 11,318.57	tier-3	tier-2	R1026
ld987	11-7-1963	59	0	\$ 11,319.12	tier-3	tier-1	R1012
ld986	20-9-2002	20	0	\$ 11,321.49	tier-3	tier-3	R1012
ld985	19-8-1989	33	1	\$ 11,326.71	tier-3	tier-3	R1013
ld984	2-11-1968	54	0	\$ 11,344.32	tier-3	tier-2	R1025
ld983	12-7-1964	58	0	\$ 11,345.52	tier-3	tier-3	R1011
ld982	29-11-1965	57	0	\$ 11,353.23	tier-3	tier-1	R1012
ld981	26-9-1965	57	0	\$ 11,356.66	tier-3	tier-3	R1012
ld980	4-7-1964	58	0	\$ 11,362.76	tier-3	tier-1	R1011
ld98	12-8-1966	56	0	\$ 40,373.74	tier-1	tier-3	R1011
ld979	3-7-1964	58	0	\$ 11,363.28	tier-3	tier-1	R1013
ld978	13-12-1964	58	0	\$ 11,365.95	tier-3	tier-2	R1011
ld977	7-6-1979	44	2	\$ 11,369.39	tier-3	tier-1	R1026
ld976	6-12-1972	50	0	\$ 11,378.57	tier-3	tier-2	R1025
ld975	13-6-1964	58	0	\$ 11,381.33	tier-3	tier-2	R1013
ld974	28-7-1997	25	0	\$ 11,388.27	tier-3	tier-2	R1026
ld973	19-12-1967	55	1	\$ 11,394.07	tier-3	tier-1	R1018
ld972	2-10-1970	52	2	\$ 11,396.90	tier-3	tier-3	R1024
ld971	7-10-1970	52	3	\$ 11,411.69	tier-3	tier-2	R1011
ld970	23-10-1983	39	3	\$ 11,412.02	tier-3	tier-1	R1021
ld97	3-11-1985	37	0	\$ 40,419.02	tier-1	tier-2	R1013
ld969	9-6-1985	37	3	\$ 11,419.49	tier-3	tier-1	R1012
ld968	17-7-1980	42	2	\$ 11,435.74	tier-3	tier-3	R1021

Customers Names Medical Examinations Hospitalization Details Health Care Donut Chart f ...

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Data Analysis:

➤ Create a new sheet named "Healthcare", combine all three tables into one, using Customer ID as the common column, utilizing VLOOKUP.

➤ Retain the following necessary columns: Customer ID, First Name, BMI, HBA1C, Heart Issues, Any Transplants, Cancer history, NumberOfMajorSurgeries, smoker, Weight Status, Diabetes Status, Date of Birth, charges, Hospital tier, City tier, State ID, Age.

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C2 =VLOOKUP(A2,"Medical Examinations"!\$A1000:\$B3295,2,FALSE)

Customer ID	First Name	BMI	HBA1C	Heart Issues	Any Transplants	Cancer history	No.Of MajorSurgeries	Smoker	Weight Status	Diabetes Status	Date of Birth
ld999	Campbell	28.6	5.56	Yes	No	Yes	1	No	Over weight	Normal	20-8-1969
ld998	Deady	35.93	8.3	Yes	No	No	0	No	Obesity	Diabetes	2-10-1981
ld997	Garcia	36.6	5.2	Yes	No	Yes	1	No	Obesity	Normal	11-10-1969
ld996	Susedik	29.79	9.03	No	No	No	0	No	Over weight	Diabetes	26-12-1971
ld995	Peters	28.31	4.55	No	yes	No	1	No	Over weight	Normal	4-10-2004
ld994	Tufaro	29.83	7.2	Yes	No	No	0	No	Over weight	Diabetes	14-6-1967
ld993	Chen	32.775	8.02	Yes	No	No	2	No	Obesity	Diabetes	22-6-1970
ld992	Mitchell	38.93	5.64	Yes	No	No	1	No	Obesity	Normal	14-11-1988
ld991	Rall	33.7	4.01	No	No	No	2	No	Obesity	Normal	25-9-1972
ld990	Donnelly	27.645	10.56	No	No	No	0	No	Over weight	Diabetes	6-10-1968
ld99	Gage	41.51	6.92	No	No	No	0	Yes	Obesity	Diabetes	4-9-1962
ld989	Opie	24.91	7.33	Yes	No	Yes	1	No	Over weight	Diabetes	22-11-1963
ld988	Chiappone	48.12	4.51	Yes	No	No	1	No	Obesity	Normal	10-12-1995
ld987	Anderson	24.93	9.18	Yes	No	Yes	1	No	Over weight	Diabetes	11-7-1963
ld986	Webster	54.47	7.48	No	No	No	0	No	Obesity	Diabetes	20-9-2002
ld985	McCue	42.46	4.11	No	No	No	0	No	Obesity	Normal	19-8-1989
ld984	Winters	27.75	9.88	No	No	No	0	No	Over weight	Diabetes	2-11-1968
ld983	Blain	23.3	5.36	Yes	No	No	1	No	Normal weight	Normal	12-7-1964
ld982	Burger	31.54	6.72	No	No	No	0	No	Obesity	Diabetes	29-11-1965
ld981	Peck	34.01	11.3	No	No	No	0	No	Obesity	Diabetes	26-9-1965
ld980	Robertson	35.7	5.47	Yes	No	No	1	No	Obesity	Normal	4-7-1964

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C2 =VLOOKUP(A2,"Medical Examinations"!\$A1000:\$B3295,2,FALSE)

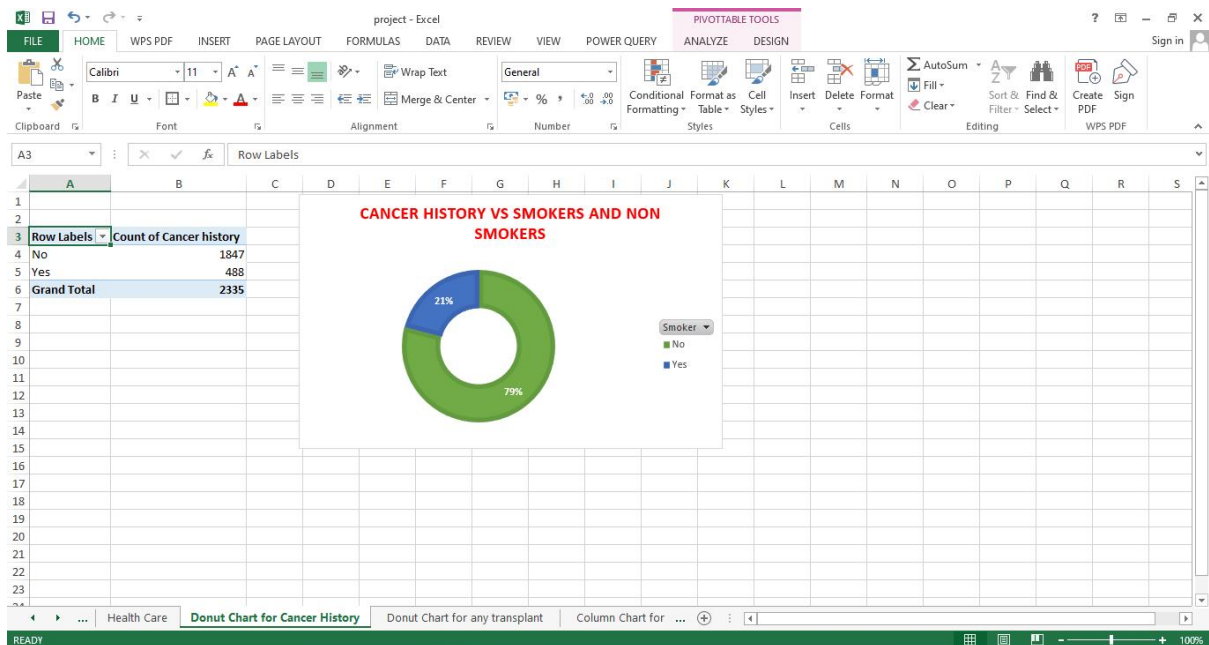
	F	G	H	I	J	K	L	M	N	O	P	Q
	Any Transplants	Cancer history	N0.Of MajorSurgeries	Smoker	Weight Status	Diabetes Status	Date of Birth	Charges	Hospital tier	City tier	State ID	Age
1	No	Yes	1	No	Over weight	Normal	20-8-1969	11253.42	tier - 3	tier - 1	R1011	53
2	No	No	0	No	Obesity	Diabetes	2-10-1981	11255.29	tier - 3	tier - 1	R1026	41
3	No	Yes	1	No	Obesity	Normal	11-10-1969	11264.54	tier - 3	tier - 2	R1011	53
4	No	No	0	No	Over weight	Diabetes	26-12-1971	11265.71	tier - 3	tier - 1	R1025	51
5	yes	No	1	No	Over weight	Normal	4-10-2004	11272.33	tier - 3	tier - 2	R1019	18
6	No	No	0	No	Over weight	Diabetes	14-6-1967	11286.54	tier - 3	tier - 3	R1024	55
7	No	No	2	No	Obesity	Diabetes	22-6-1970	11289.11	tier - 3	tier - 1	R1012	52
8	No	No	1	No	Obesity	Normal	14-11-1988	11294.57	tier - 3	tier - 1	R1022	34
9	No	No	2	No	Obesity	Normal	25-9-1972	11299.34	tier - 3	tier - 2	R1011	50
10	No	No	0	No	Over weight	Diabetes	6-10-1968	11305.93	tier - 3	tier - 1	R1012	54
11	No	No	0	Yes	Obesity	Diabetes	4-9-1962	40309.93	tier - 1	tier - 3	R1011	60
12	No	Yes	1	No	Over weight	Diabetes	22-11-1963	11312.33	tier - 3	tier - 3	R1012	59
13	No	No	1	No	Obesity	Normal	10-12-1995	11318.57	tier - 3	tier - 2	R1026	27
14	No	Yes	1	No	Over weight	Diabetes	11-7-1963	11319.12	tier - 3	tier - 1	R1012	59
15	No	No	0	No	Obesity	Diabetes	20-9-2002	11321.49	tier - 3	tier - 3	R1012	20
16	No	No	0	No	Obesity	Normal	19-8-1989	11326.71	tier - 3	tier - 3	R1013	33
17	No	No	0	No	Over weight	Diabetes	2-11-1968	11344.32	tier - 3	tier - 2	R1025	54
18	No	No	1	No	Normal weight	Normal	12-7-1964	11345.52	tier - 3	tier - 3	R1011	58
19	No	No	0	No	Obesity	Diabetes	29-11-1965	11353.23	tier - 3	tier - 1	R1012	57
20	No	No	0	No	Obesity	Diabetes	26-9-1965	11356.66	tier - 3	tier - 3	R1012	57
21	No	No	1	No	Obesity	Normal	4-7-1964	11362.76	tier - 3	tier - 1	R1011	58
22	No	No	1	No	Obesity	Normal	4-7-1964	11362.76	tier - 3	tier - 1	R1011	58

Customers Names Medical Examinations Hospitalization Details Health Care Donut Chart f ...

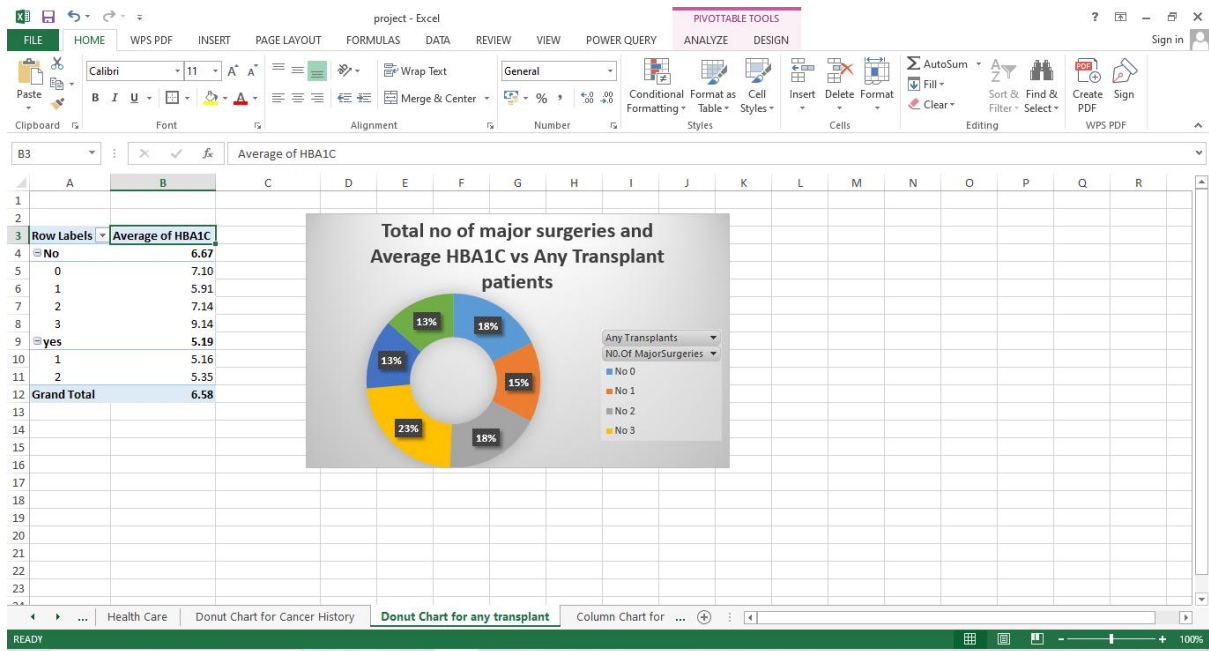
Create pivot tables if required to do the following analysis, then visualize through charts:

Analysis using Pie/Donut Chart:

➤ What is the distribution of cancer history among smokers and non-smokers?

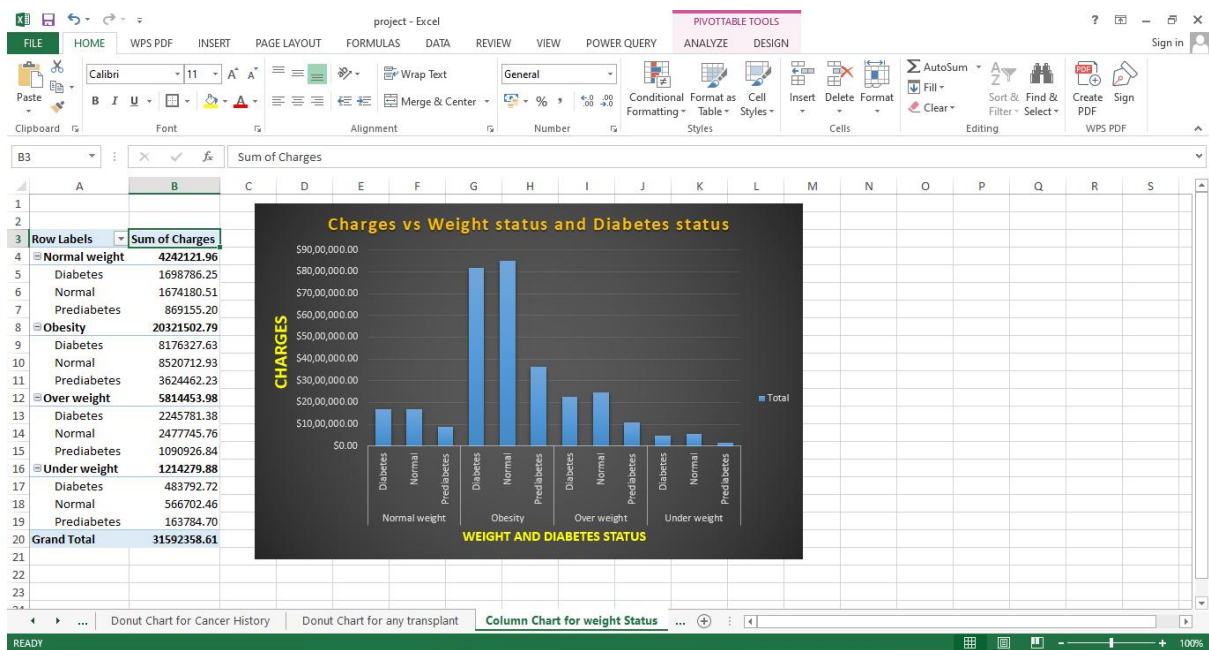


➤ How does the total number of major surgeries and average HbA1C differ between patients with and without a history of transplants?

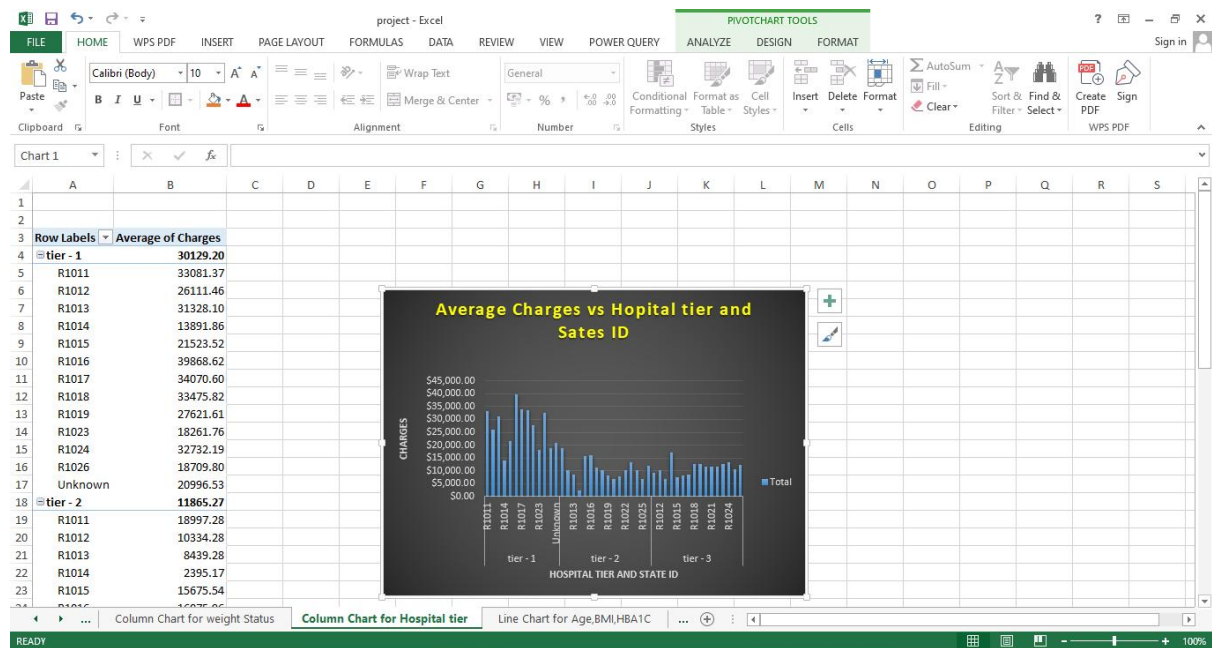


Analysis using Column/Bar Chart:

➤ How do healthcare charges vary based on different weight statuses and diabetes statuses?

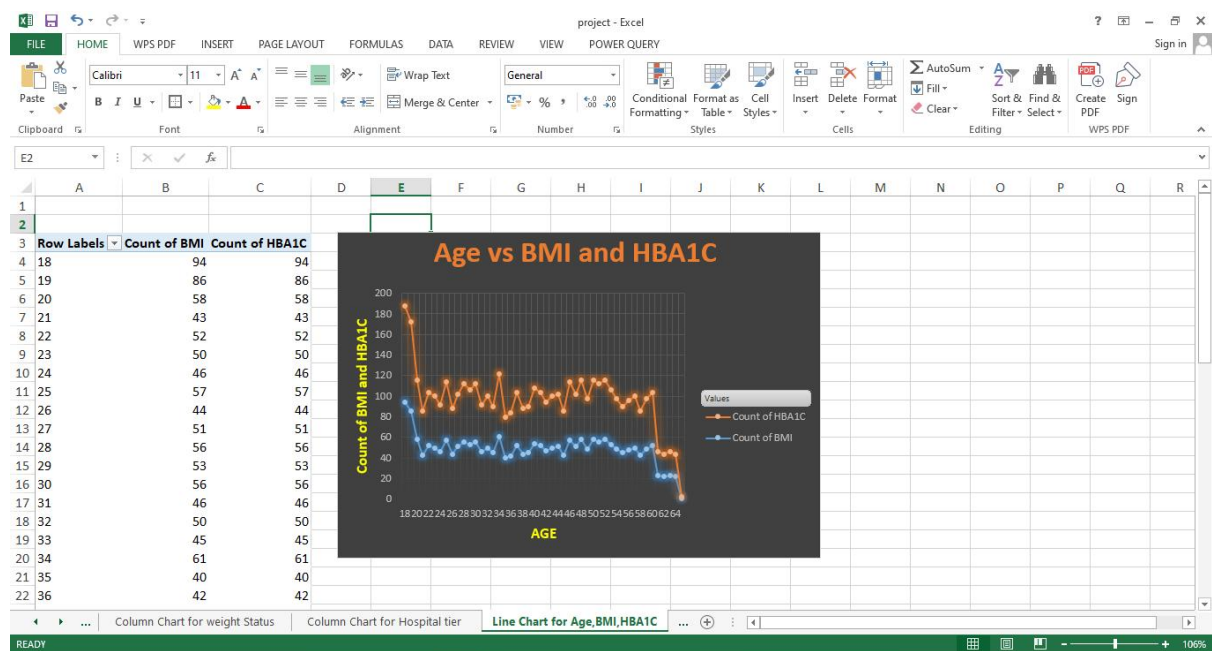


➤ Can you compare the average charges for each hospital tier within different states?

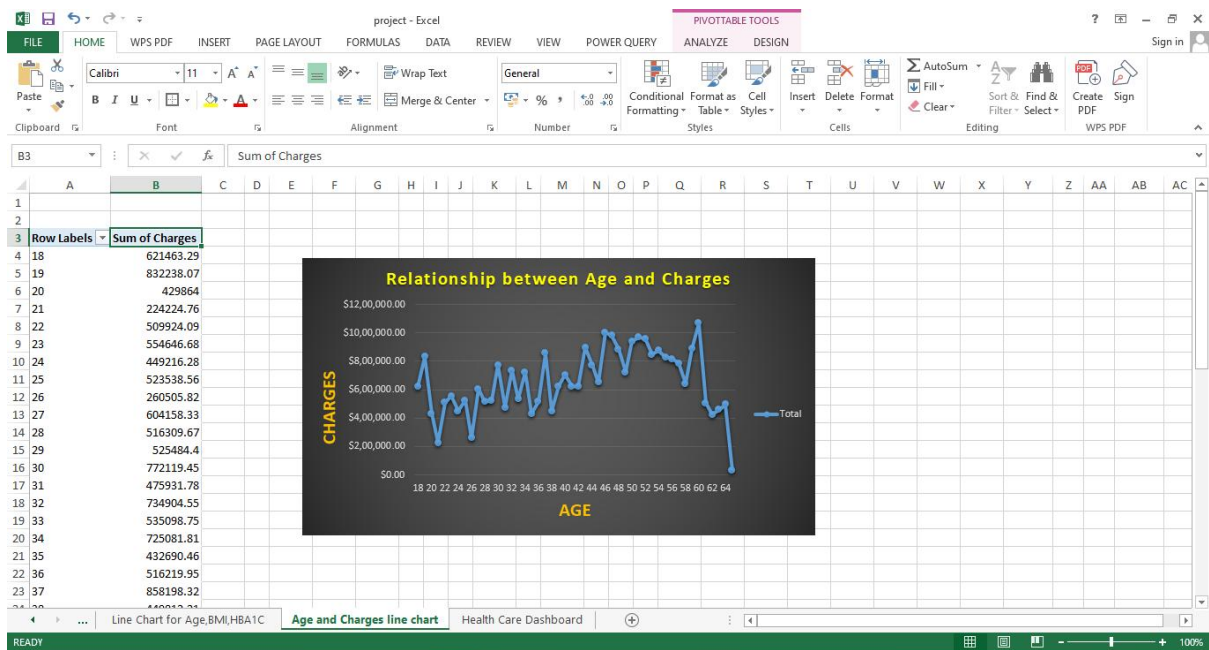


Analysis using Line/Scatter Plot:

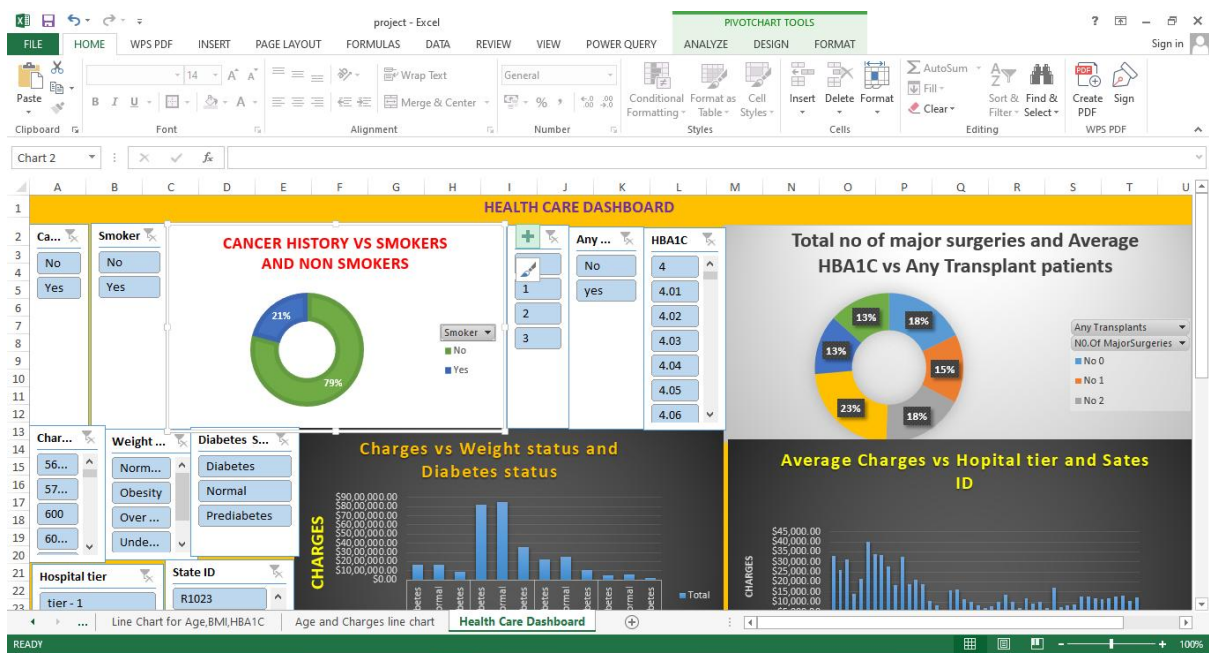
➤ Is there any correlation between age and both BMI and HbA1C in the dataset?

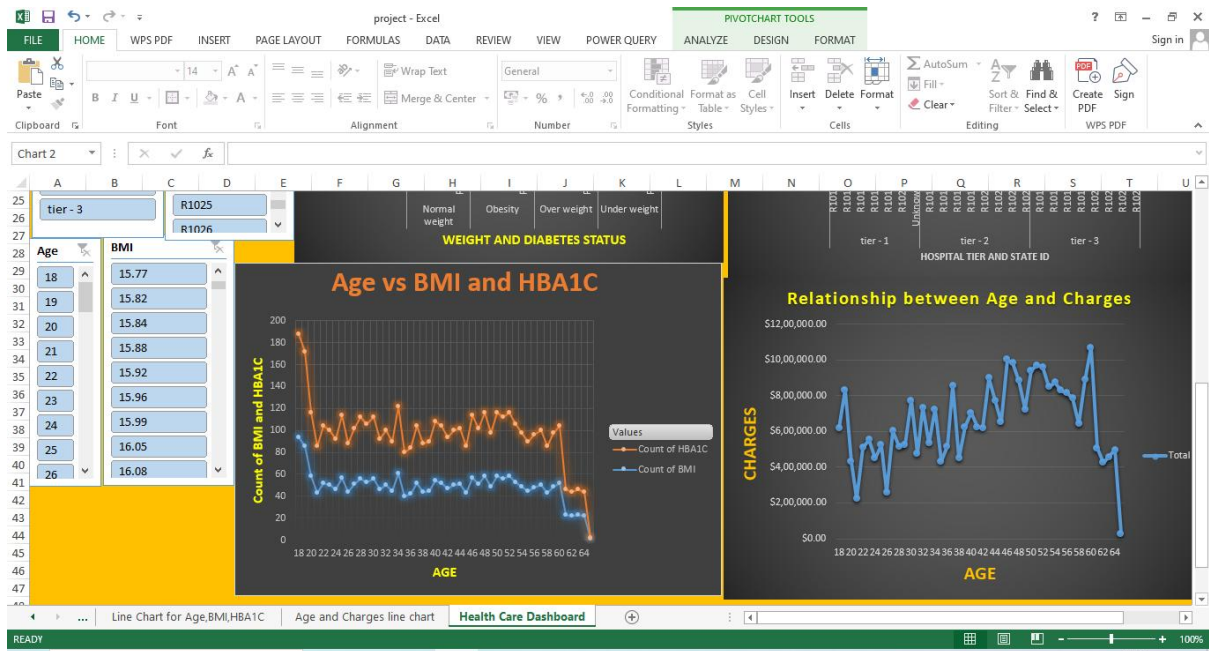


➤ Explore the relationship between age and healthcare charges.



Health Care Dashboard :





Conclusion :

Project management in healthcare is critical for the efficient delivery of medical services and the implementation of innovations that enhance patient care. By understanding and addressing the unique challenges of project management in healthcare, health professionals can lead projects that significantly improve healthcare outcomes and operational efficiencies.

As the healthcare landscape evolves, the role of project management will only grow in importance, driving forward the industry's ability to adapt and thrive in an increasingly complex environment.