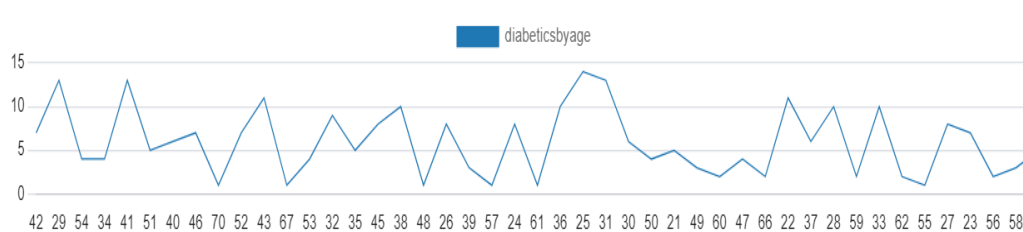


## DOCUMENT OF DIABETES DATASET ANALYSIS

PROJECT NAME	DIABETES DATA ANALYSIS USING SQL
NAME	A.shivani
DEVELOPMENT TOOL	PGADMIN4

SN O	QUESTION	QUERY	OUTPUT																																																																																						
1.	Create table diabetes	create table diabetes2(Pregnancies int,Glucose int,BloodPressure int, SkinThickness int, Insulin int, BMI float4 , DiabetesPedigreeFunction float4, Age int, Outcome int)	Table created																																																																																						
2.	Copy the data from csv file	copy diabetes2 from 'C:\Users\HP\Desktop\meriskill\D1.csv' WITH csv header	Data copied																																																																																						
3.	Select all the rows from the table	select * from diabetes2	Returns all the rows from the table																																																																																						
4.	Select age and no of the persons who have diabetes	select age,count(outcome) as diabeticsbyage from diabetes2 where outcome =1 group by age	 <p>The chart displays the frequency of individuals with diabetes across different age groups. The data points are as follows:</p> <table><tr><th>Age</th><th>Count (diabeticsbyage)</th></tr><tr><td>42</td><td>12</td></tr><tr><td>41</td><td>13</td></tr><tr><td>40</td><td>5</td></tr><tr><td>39</td><td>7</td></tr><tr><td>38</td><td>10</td></tr><tr><td>37</td><td>1</td></tr><tr><td>36</td><td>10</td></tr><tr><td>35</td><td>8</td></tr><tr><td>34</td><td>5</td></tr><tr><td>33</td><td>10</td></tr><tr><td>32</td><td>8</td></tr><tr><td>31</td><td>14</td></tr><tr><td>30</td><td>13</td></tr><tr><td>29</td><td>5</td></tr><tr><td>28</td><td>4</td></tr><tr><td>27</td><td>3</td></tr><tr><td>26</td><td>2</td></tr><tr><td>25</td><td>10</td></tr><tr><td>24</td><td>11</td></tr><tr><td>23</td><td>6</td></tr><tr><td>22</td><td>10</td></tr><tr><td>21</td><td>2</td></tr><tr><td>20</td><td>1</td></tr><tr><td>19</td><td>4</td></tr><tr><td>18</td><td>2</td></tr><tr><td>17</td><td>10</td></tr><tr><td>16</td><td>11</td></tr><tr><td>15</td><td>5</td></tr><tr><td>14</td><td>6</td></tr><tr><td>13</td><td>2</td></tr><tr><td>12</td><td>1</td></tr><tr><td>11</td><td>8</td></tr><tr><td>10</td><td>7</td></tr><tr><td>9</td><td>2</td></tr><tr><td>8</td><td>1</td></tr><tr><td>7</td><td>8</td></tr><tr><td>6</td><td>7</td></tr><tr><td>5</td><td>2</td></tr><tr><td>4</td><td>1</td></tr><tr><td>3</td><td>4</td></tr><tr><td>2</td><td>3</td></tr><tr><td>1</td><td>2</td></tr></table>	Age	Count (diabeticsbyage)	42	12	41	13	40	5	39	7	38	10	37	1	36	10	35	8	34	5	33	10	32	8	31	14	30	13	29	5	28	4	27	3	26	2	25	10	24	11	23	6	22	10	21	2	20	1	19	4	18	2	17	10	16	11	15	5	14	6	13	2	12	1	11	8	10	7	9	2	8	1	7	8	6	7	5	2	4	1	3	4	2	3	1	2
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5.	Select age,glucose level of persons who have diabetics	select age, glucose , count(outcome) as diabeticsbyglucose from diabeties2 where outcome = 1 group by age,glucose	
6.	Select max glucose acc to their age who have diabetes	select age, glucose , count(outcome) as diabeticsbyglucose from diabeties2 where outcome = 1 group by age,glucose	
7.	No of people who dosent have any diabetes	select count(outcome) from diabeties2 where outcome=0	
8.	No of people who have diabetes	select count(outcome) from diabeties2 where outcome=1	
9.	No of persons who have diabetes and their age > 50	select count(age), age from diabeties2 where outcome=1 and age>50 group by age	
10	Count of persons diabetes of whos age>50	select count(age) from diabeties2 where outcome=1 and age>50	

			38																													
11.	Determine correlation between Bmi and glucose	SELECT CORR(BMI,glucose) AS correlation FROM diabetes2;	<table><tr><td></td><td colspan="9">correlation double precision</td></tr><tr><td>1</td><td colspan="9">0.22095510282141</td></tr></table>											correlation double precision									1	0.22095510282141								
	correlation double precision																															
1	0.22095510282141																															
12.	Calculate the Average BMI for Patients with Diabetes	select avg(BMI) from diabetes2 where outcome=1	<table><tr><td></td><td colspan="9">avg double precision</td></tr><tr><td>1</td><td colspan="9">35.1483146367448</td></tr></table>											avg double precision									1	35.1483146367448								
	avg double precision																															
1	35.1483146367448																															
13.	Calculate the Average Age of Patients	select avg(age) from diabetes2 where outcome=1	<table><tr><td></td><td colspan="9">ageavg numeric</td></tr><tr><td>1</td><td colspan="9">37.01872659</td></tr></table>											ageavg numeric									1	37.01872659								
	ageavg numeric																															
1	37.01872659																															
14.	Return a row who have diabetes , and age > 40 and insulin > 800	select * from diabetes2 where outcome=1 and age>40 and insulin>800	<table><tr><td></td><td>pregnancies integer</td><td>glucose integer</td><td>bloodpressure integer</td><td>skinthickness integer</td><td>insulin integer</td><td>bmi real</td><td>diabetespedigreefunction real</td><td>age integer</td><td>outcome integer</td></tr><tr><td>1</td><td>1</td><td>189</td><td>60</td><td>23</td><td>846</td><td>30.1</td><td>0.398</td><td>59</td><td></td></tr></table>											pregnancies integer	glucose integer	bloodpressure integer	skinthickness integer	insulin integer	bmi real	diabetespedigreefunction real	age integer	outcome integer	1	1	189	60	23	846	30.1	0.398	59	
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1	1	189	60	23	846	30.1	0.398	59																								
15.	Return max diabetes function od age > 40	select max(diabetespedigreefunction) from diabetes2 where outcome=1 and age>40	<table><tr><td></td><td colspan="9">max real</td></tr><tr><td>1</td><td colspan="9">1.39</td></tr></table>											max real									1	1.39								
	max real																															
1	1.39																															

16.

Return rows where  
bloodpressure>100  
& glucose >100

select \* from diabeties2  
where bloodpressure > 100 and  
glucose >100

	pregnancies integer	glucose integer	bloodpressure integer	skinthickness integer	insulin integer	bmi real	diabetespedigreefunction real	age integer	outcome integer
1	9	171	110	24	240	45.4	0.721	54	1
2	5	137	108	0	0	48.8	0.227	37	1
3	0	129	110	46	130	67.1	0.319	26	1
4	5	162	104	0	0	37.7	0.151	52	1
5	5	103	108	37	0	39.2	0.305	65	0
6	1	133	102	28	140	32.8	0.234	45	1
7	0	189	104	25	0	34.3	0.435	41	1
8	4	189	110	31	0	28.5	0.68	37	0
9	11	127	106	0	0	39	0.19	51	0
10	8	167	106	46	231	37.6	0.165	43	1
11	13	158	114	0	0	42.3	0.257	44	1



