

## Description of Python Files Used in the Deliverable:

The file “provess\_csv\_calculate\_scores.py” contains two functions: split\_csv() which was used to split the CHH\_ProvincialHeartHealthData CSV file into 11 separate csv files according to the dimensions defined in the project, and calculate\_risk\_create\_fact() which was used to calculate Framingham and ASCVD risk scores from the dimensional attributes and create the csv file for the fact table.

The file “calculator.py” contains the two functions responsible for calculating the Framingham and ASCVD risk scores. These two functions were obtained from two GitHub repositories and modified to work with the project’s dimensional attributes and the calculate\_risk\_create\_fact() function. The links to the source GitHub repositories are included in the comment line above each function.

The file “create\_tables.py” contains the functions responsible for reading the csv files created by the split\_csv() function and creating the 12 tables in the database.

## Description of Database Tables Columns and Handling of Missing/Unknown Values According to the Canadian Heart Health Survey Codebook

The CHH\_ProvincialHeartHealthData CSV file used in the project has 23129 rows (patient entries) with 266 columns for each row. The CSV file columns contained no missing/null values (screenshots below):

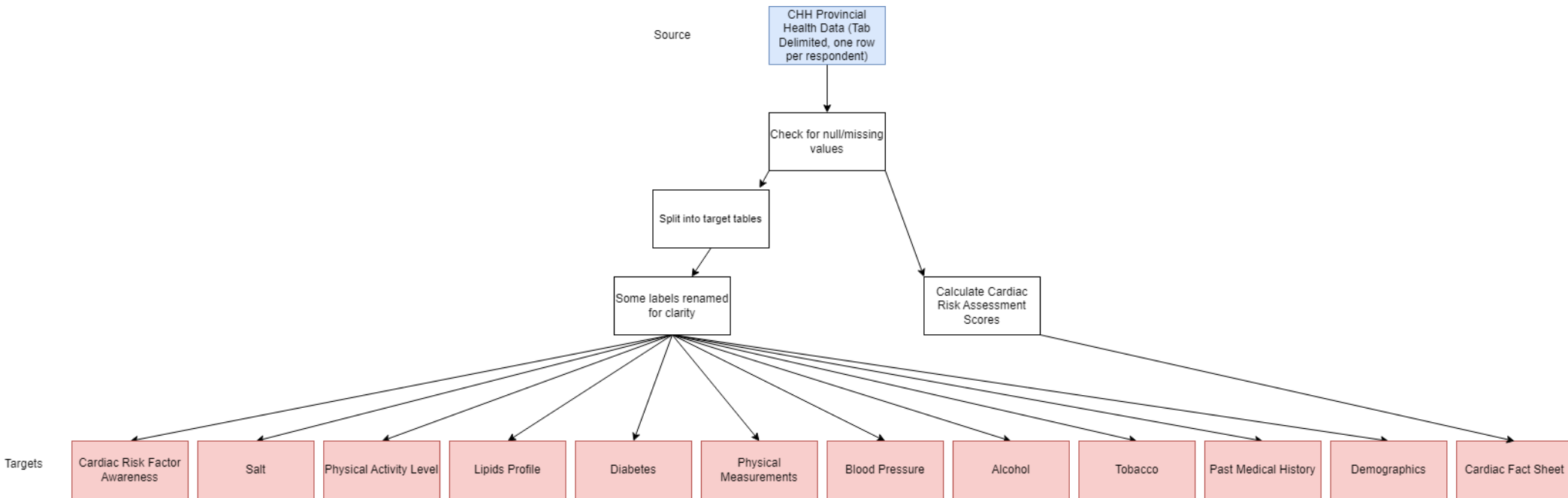
```
df = pd.read_csv('C:/users/conta/desktop/physical_design/CHH_ProvincialHeartHealthData.tab', encoding='ascii', sep='\t')
shape = df.shape
print("The shape of the data frame is ", shape)
print(df.isnull().values.any())
```

```
The shape of the data frame is (23129, 266)
False
```

All missing or unknown attributes in the CSV file were marked with special codes according to the survey's codebook. The tables below (after the Data Staging Plan) provide a description of columns in the database tables and the codes used for missing or unknown values. The SEQNO (Sequence Number) column in the CSV file (starting at 1, ending at 23129) was used as the primary key of the fact and dimensional tables. Screenshots of the tables created in the PostgreSQL database are also included in the report.

Due to this data being previously being made uniform and codified for a previous study, very little additional work was required to prepare it for use in our warehouse. Due to the structure of the survey questions useful data bins were already established within the dataset, some of which proved useful for our requirements.

# Data Staging Plan



## SALT Table

Column Name	Description	Code description	Missing/Unknown Values
SEQNO	Sequence Number(Primary Key)	Primary Key	N/A
SALTCOOK	HOW OFTEN IS SALT ADDED WHILE COOKING	Often 1 Sometimes 2 Occasionally 3 Almost never or never 4	Variable unknown 7 Don't know 8 Not stated/refused 9
SALTFOOD	HOW OFTEN IS SALT ADDED AT THE TABLE	Often 1 Sometimes 2 Occasionally 3 Almost never or never 4	Variable unknown 7 Not stated/refused 9
SALTBP	SALT EFFECTS: BP WOULD INCREASE?	Mentioned 1 Not mentioned 2	Variable unknown 7 Not applicable 0
SALTHA	SALT EFFECTS: INCR RISK OF HRT ATTACK?	Mentioned 1 Not mentioned 2	Variable unknown 7 Not applicable 0
SALTSTR	SALT EFFECTS: INCREASE RISK OF STROKE?	Mentioned 1 Not mentioned 2	Variable unknown 7 Not applicable 0

## DEMOGRAPHICS Table

Column Name	Description	Code description	Missing/Unknown Values
SEQNO	Sequence Number(Primary Key)	Primary Key	N/A
PROV	PROVINCE	Newfoundland 10 Prince Edward Island 11 Nova Scotia 12 New Brunswick 13 Quebec 24 Ontario 35 Manitoba 46 Saskatchewan 47 Alberta 48 British Columbia 59	N/A
SEX	SEX	Male 1 Female 2	N/A
AGE	AGE IN YEARS	AGE IN YEARS (int)	N/A
EDUC	GROUPED EDUCATION	Completed elementary school or less 1	Not stated/refused 9

		Some secondary schooling 2 Secondary school completed 3 University degree completed 4	
INCOME	INCOME LEVEL	Under \$12,000 1 \$12,000 - \$24,999 2 \$25,000 - \$49,999 3 \$50,000 and over 4	Not stated/refused 9
INCADEQ	INCOME ADEQUACY	Low income 1 Middle income 2 High income 3	Unknown income 9
EMPLOY	EMPLOYMENT STATUS	Full-time (35 hours or more a week) 1 Part-time (Less than 35 hours a week) 2 Unemployed 3 Laid off 4 Retired 5 Other 6 Homemaker 7 Student 8	Not stated/refused 99
WORKTYPE	WORK CLASSIFICATION	Professional 1 Clerical worker 2 Skilled foreman 3 Manager/official/proprietor 4 Sales worker 5 Non-skilled 6 Other work 7	Not stated/refused 99 Not applicable 0
MARITAL	CURRENT MARITAL STATUS	Never married 1 Divorced 2 Married/common law 3 Widowed/widower 4 Separated 5	Not stated/refused 9
HOUSEHLD	NUMBER OF PERSONS IN HOUSEHOLD	NUMBER OF PERSONS IN HOUSEHOLD	Not stated/refused 99
LANG	LANGUAGE	English 1 French 2 Other 3	Variable unknown 7 Not stated/refused 9

## ALCOHOL Table

Column Name	Description	Code description	Missing/Unknown Values
SEQNO	Sequence Number(Primary Key)	Primary Key	N/A
ALCOHOL	ALCOHOL DRINKING STATUS	Never drink 1 Former drinker 2 Current drinker 3	Variable unknown 7 Not stated/refused 9
ALC12MTH	TAKEN DRINK IN PAST 12 MONTHS?	Yes 1 No 2	Variable unknown 7 Not stated/refused 9 Not applicable 0
ALCMTH	MONTHLY FREQ OF ALC DRINKS IN PAST YEAR	MONTHLY FREQ OF ALC DRINKS IN PAST YEAR (int) Less than once a month 95	Variable unknown 97 Don't know 98 Not stated/refused 99 Not applicable 0
ALCNUM	AVERAGE DAILY ALCOHOL CONSUMPTION	AVERAGE DAILY ALCOHOL CONSUMPTION (int)	Variable unknown 97 Don't know 98 Not stated/refused 99 Not applicable 0

## TOBACCO Table

Column Name	Description	Code description	Missing/Unknown Values
SEQNO	Sequence Number(Primary Key)	Primary Key	N/A
REGSMOK	REGULAR SMOKER?	No 0 Yes 1	Not stated/refused 9
SMOKECAT	CURRENT SMOKING STATUS	Never smoked 1 Former smoker 2 Regular cigarette smoker 3 Occasional cigarette smoker 4 Pipe or cigar smoker 5	Not stated/refused 9
CIGCAT	CIGARETTES SMOKED CATEGORIES	Not a regular cigarette smoker 1 1-10 per day 2 11-25 per day 3 26 or more per day 4	Variable unknown 7 Not stated/refused 9

CIG_DAY	NUMBER CIGARETTES PER DAY	NUMBER CIGARETTES PER DAY (int)	Variable unknown 997 Not stated/refused 999 Not stated/refused 99
PIPE	DO YOU SMOKE A PIPE NOW?	Yes 1 No 2	Not stated/refused 9 Not applicable 0
CIGAR	DO YOU SMOKE CIGARS NOW?	Yes 1 No 2	Not stated/refused 9 Not applicable 0

## PAST\_MEDICAL\_HISTORY Table

Column Name	Description	Code description	Missing/Unknown Values
SEQNO	Sequence Number(Primary Key)	Primary Key	N/A
EVERHA	HAVE YOU EVER HAD A HEART ATTACK?	Yes 1 No 1	Not sure 8 Not stated/refused 9
EVERSTR	HAVE YOU EVER HAD A STROKE?	Yes 1 No 2	Not sure 8 Not stated/refused 9
OTHHD	DO YOU HAVE ANY OTHER HEART DISEASE?	Yes 1 No 2	Not sure 8 Not stated/refused 9
RXHEART	TAKING ANY PRESCRIBED MEDS FOR HEART?	Yes 1 No 2	Not sure 8 Not stated/refused 9
FEMRX	ON ORAL CONTRACEPTIVES/HORMONAL PILLS?	Oral contraceptives 1 Hormonal pills 2 Neither 3	Not stated/refused 9 Not applicable 0

## BLOOD\_PRESSURE Table

Column Name	Description	Code description	Missing/Unknown Values
SEQNO	Sequence Number(Primary Key)	Primary Key	N/A
SYSCAT	SYSTOLIC BLOOD PRESSURE CATEGORIES	Less than 120 1 120-129 2 130-139 3 140-149 4 150-159 5 160 or more 6	Not stated/refused 9
DIASCAT	DIASTOLIC BLOOD PRESSURE CATEGORIES	Less than 80 1 80-84 2 85-89 3	Not stated/refused 9

		90-94 4 95-99 5 100 or more 6	
HYPER	HYPERTENSIVE (HBP) STATUS	Not hypertensive 0 Hypertensive 1	N/A
HATCS	HBP AWARE TREATMENT CONTROL STATUS	Treated and controlled 1 Treated and not controlled 2 Not treated and not controlled 3 Unaware 4	Variable unknown 7 Not applicable (HYPER = 0) 0
PHARM	ON PHARMACOLOGICAL TREATMENT FOR HBP?	No 0 Yes 1	N/A
BPSALT2	BP TREATMENT NOW: SALT FREE DIET?	Mentioned 1 Not mentioned 2	Not applicable 0
BPWGT2	BP TREATMENT NOW: WATCH WEIGHT?	Mentioned 1 Not mentioned 2	Not applicable 0
BPSTR2	BP TREATMENT NOW: AVOID STRESS?	Mentioned 1 Not mentioned 2	Not applicable 0
BPSMOK2	BP TREATMENT NOW: REDUCE/STOP SMOKING?	Mentioned 1 Not mentioned 2	Not applicable 0
BPALC2	BP TREATMENT NOW: REDUCE ALCOHOL?	Mentioned 1 Not mentioned 2	Not applicable 0
BPEXER2	BP TREATMENT NOW: START EXERCISE?	Mentioned 1 Not mentioned 2	Not applicable 0
BPSALT	HBP RELATED TO: SALT?	Mentioned 1 Not mentioned 2	Not stated/refused 9 Not applicable 0
BPFATS	HBP RELATED TO: FATS?	Mentioned 1 Not mentioned 2	Not stated/refused 9 Not applicable 0
BPCALOR	HBP RELATED TO: CALORIES/OVEREATING?	Mentioned 1 Not mentioned 2	Not stated/refused 9 Not applicable 0
BPALC	HBP RELATED TO: ALCOHOL?	Mentioned 1 Not mentioned 2	Not stated/refused 9 Not applicable 0
BPCAFF	HBP RELATED TO: CAFFEINE/COFFEE?	Mentioned 1 Not mentioned 2	Not stated/refused 9 Not applicable 0
BPHEALTH	DO YOU THINK HIGH BP CAN AFFECT HEALTH?	Yes 1 No 2 Do not know 8	N/A

## PHYSICAL\_MEASUREMENTS Table

Column Name	Description	Code description	Missing/Unknown Values
SEQNO	Sequence Number(Primary Key)	Primary Key	N/A
HGTC	CLINIC: HEIGHT IN CENTIMETRES	HEIGHT IN CENTIMETRES (int)	Variable unknown 997 Recoded missing 998 Not stated/refused 999
WGTC	CLINIC: WEIGHT IN KILOGRAMS	WEIGHT IN KILOGRAMS (int)	Variable unknown 997 Recoded missing 998 Not stated/refused 999
BMI	BODY MASS INDEX	BODY MASS INDEX (int)	Variable unknown 999 Not stated/refused 999
BMICAT	BMI CATEGORIES	Less than 20 1 20-24.9 2 25-26.9 3 27-29.9 4 30-34.9 5 35 or more 6	Variable unknown 7 Not stated/refused 9
WAIST	CLINIC: WAIST IN CENTIMETRES	WAIST IN CENTIMETRES (int)	Not stated/refused 997 Variable Unknown 999
HIP	CLINIC: HIP IN CENTIMETRES	HIP IN CENTIMETRES (int)	Not stated/refused 997 Variable Unknown 999
WHR	WAIST/HIP RATIO	WAIST/HIP RATIO (int)	Not stated/refused 99 Variable Unknown 99
WHRCAT	WAIST/HIP RATIO RISK CATEGORIES	Low waist/hip ratio 0 High waist/hip ratio 1	Variable unknown 7 Not stated/refused 9
PULSE	CLINIC: PULSE MEASUREMENT	PULSE MEASUREMENT (int)	Variable unknown 997 Not stated/refused 999

## DIABETES Table

Column Name	Description	Code description	Missing/Unknown Values
SEQNO	Sequence Number(Primary Key)	Primary Key	N/A



DIABET	EVER TOLD YOU HAVE DIABETES?	Yes 1 No 2	Variable unknown 7 Not stated/refused 9
DIABAGE	AGE WHEN TOLD YOU HAD DIABETES	AGE WHEN TOLD YOU HAD DIABETES (int)	Variable unknown 97 Can't remember 98 Not stated/refused 99 Not applicable 0
DBNOTRT	DIABETES TX NOW: NO CURRENT TREATMENT?	Mentioned 1 Not mentioned 2	Variable unknown 7 Not stated/refused 9 Not applicable 0
DBINS	DIABETES TX NOW: INSULIN?	Mentioned 1 Not mentioned 2	Variable unknown 7 Not stated/refused 9 Not applicable 0
DBRX	DIABETES TX NOW: PILLS TO CONTROL B SUG?	Mentioned 1 Not mentioned 2	Variable unknown 7 Not stated/refused 9 Not applicable 0
DBDIET	DIABETES TX NOW: DIET?	Mentioned 1 Not mentioned 2	Variable unknown 7 Not stated/refused 9 Not applicable 0
DBWG	DIABETES TX NOW: WEIGHT LOSS?	Mentioned 1 Not mentioned 2	Variable unknown 7 Not stated/refused 9 Not applicable 0
DBDK	DIABETES TX NOW: DONT KNOW/NOT STATED	Mentioned 1 Not mentioned 2	Variable unknown 7 Not stated/refused 9 Not applicable 0

## LIPIDS\_PROFILE Table

Column Name	Description	Code description	Missing/Unknown Values
SEQNO	Sequence Number(Primary Key)	Primary Key	N/A
TCHOL	TOTAL PLASMA CHOLESTEROL (MMOL/L)	TOTAL PLASMA CHOLESTEROL (float)	Variable unknown 999.97 No measurement 999.99
TCHOLCAT	TOTAL CHOL CATEGORIES	Less than 5.2 1 5.2 - 6.1 2 6.2 or more 3	Did not attend clinic or no blood sample 7 No measurement 9
HDL	HIGH DENSITY LIPOPROTEINS (MMOL/L)	PLASMA HIGH DENSITY LIPOPROTEINS (MMOL/L) (float)	Variable unknown 999.97 No measurement 999.99
LDL	LOW DENSITY LIPOPROTEINS (MMOL/L)	PLASMA LOW DENSITY	Variable unknown 999.97 No measurement 999.99

		LIPOPROTEINS (MMOL/L) (float)	
TRIG	TRIGLYCERIDES (MMOL/L)	PLASMA TRIGLYCERIDES (MMOL/L) (float)	Variable unknown 999.97 No measurement 999.99
BCHRX	TO LOWER CHOL: TAKE PRESCRIBED MEDS?	Mentioned 1 Not mentioned 2	Not applicable 0
BCHFAT	TO LOWER CHOL: EAT LESS FATTY FOODS?	Mentioned 1 Not mentioned 2	Not applicable 0
BCHWGT	TO LOWER CHOL: LOSE WEIGHT?	Mentioned 1 Not mentioned 2	Not applicable 0
CHOLBP	CHOL AFFECTS HEALTH: INCREASE BP?	Mentioned 1 Not mentioned 2	Not stated/refused 9 Not applicable 0
CHOLHA	CHOL AFFECTS HEALTH: HEART ATTACK?	Mentioned 1 Not mentioned 2	Not stated/refused 9 Not applicable 0

## PHYSICAL\_ACTIVITY\_LEVEL Table

Column Name	Description	Code description	Missing/Unknown Values
SEQNO	Sequence Number(Primary Key)	Primary Key	N/A
SEDENT	SEDENTARY?	Yes 1 No 0	Not stated/refused 9
EXER	EXERCISE REGULARLY (1+ TIMES A WEEK)?	Yes 1 No 2	Cannot remember 8 Not stated/refused 9
EXERSTRN	HOW MUCH OF THIS EXERCISE IS STRENUOUS?	Most of it 1 Some of it 2 None of it 3	Not stated/refused 9 Not applicable 0
EXERLONG	HOW LONG DO YOU USUALLY EXERCISE?	Less than 15 minutes 1 15 to 30 minutes 2 31 to 60 minutes 3 More than 60 minutes 4 Don't know 8	Not stated/refused 9 Not applicable 0
EXERWORK	WORK REQUIRES STRENUOUS PHYS ACTIVITY?	Yes 1 No 2	Variable unknown 7 Cannot remember 8 Not stated/refused 9 Not applicable 0

## CARDIAC\_RISK\_FACTORS\_AWARENESS Table

Column Name	Description	Code description	Missing/Unknown Values
SEQNO	Sequence Number(Primary Key)	Primary Key	N/A
HDPREV	BELIEVE HEART DISEASE CAN BE PREVENTED?	Yes 1 No 0	Not sure 8 Not stated/refused 9
HDDIET	CAUSES OF HRT DISEASE: POOR DIET?	Mentioned 1 Not mentioned 2	N/A
HDWGT	CAUSES OF HRT DISEASE: OVERWEIGHT?	Mentioned 1 Not mentioned 2	N/A
HDFATS	CAUSES OF HRT DISEASE: EXCESS FATS?	Mentioned 1 Not mentioned 2	N/A
HDSALT	CAUSES OF HRT DISEASE: EXCESS SALT?	Mentioned 1 Not mentioned 2	N/A
HDCHOLBD	CAUSES OF HRT DISEASE: HIGH BLOOD CHOL?	Mentioned 1 Not mentioned 2	N/A
HDCHOLFD	CAUSES OF HRT DIS: FOODS WITH HIGH CHOL?	Mentioned 1 Not mentioned 2	N/A
HDSTRESS	CAUSES OF HRT DISEASE: STRESS/WORRY?	Mentioned 1 Not mentioned 2	N/A
HDTIRED	CAUSES OF HRT DISEASE: OVERWORK/FATIGUE?	Mentioned 1 Not mentioned 2	N/A
HDEXER	CAUSES OF HRT DISEASE: LACK OF EXERCISE?	Mentioned 1 Not mentioned 2	N/A
HDSMOKE	CAUSES OF HRT DISEASE: SMOKING?	Mentioned 1 Not mentioned 2	N/A
HDHERED	CAUSES OF HRT DISEASE: HEREDITY?	Mentioned 1 Not mentioned 2	N/A
HDHBP	CAUSES OF HRT DISEASE: HIGH BP?	Mentioned 1 Not mentioned 2	N/A
HDART	CAUSES OF HRT DISEASE: ARTERIOSCLEROSIS?	Mentioned 1 Not mentioned 2	N/A
HDDK	CAUSES OF HRT DISEASE: DO NOT KNOW?	Mentioned 1 Not mentioned 2	N/A

## CARDIAC\_FACT Table

Column Name	Description	Missing/Unknown Values
SEQNO	Sequence Number(Primary Key)	N/A

DEMOGRAPHICS_KEY	DEMOGRAPHICS Table FK	N/A
PHYSICAL_MEASUREMENTS_KEY	PHYSICAL_MEASUREMENTS Table FK	N/A
BLOOD_PRESSURE_KEY	BLOOD_PRESSURE Table FK	N/A
LIPIDS_PROFILE_KEY	LIPIDS_PROFILE Table FK	N/A
DIABETES_KEY	DIABETES Table FK	N/A
ALCOHOL_KEY	ALCOHOL Table FK	N/A
TOBACCO_KEY	TOBACCO Table FK	N/A
SALT_KEY	SALT Table FK	N/A
PHYSICAL_ACTIVITY_LEVEL_KEY	PHYSICAL_ACTIVITY_LEVEL Table FK	N/A
PAST_MEDICAL_HISTORY_KEY	PAST_MEDICAL_HISTORY Table FK	N/A
CARDIAC_RISK_FACTORS_AWARENESS_KEY	CARDIAC_RISK_FACTORS_AWARENESS Table FK	N/A
FRAMINGHAM_SCORE (Calculated from Dimension Tables' Attributes)	The Framingham Coronary Heart Disease Risk Score estimates risk of heart attack in 10 years.	Missing Parameters/Unable to Calculate 999
ASCVD_SCORE (Calculated from Dimension Tables' Attributes)	The ASCVD (atherosclerotic cardiovascular disease) risk score estimates risk of heart attack in 10 years	Missing Parameters/Unable to Calculate 999

## Database Tables Screenshots

The screenshot displays a PostgreSQL database interface. On the left, a 'Browser' pane shows the database structure, with 'Tables (12)' expanded. The 'alcohol' table is selected. The main window shows a query: `select * from alcohol;`. Below the query, the 'Data Output' pane displays a table with 19 rows and 6 columns: `seqno` (integer), `alcohol` (integer), `alc12mth` (integer), `alc1mth` (integer), `alcnm` (integer), and `alcnum` (integer). The data is as follows:

seqno	alcohol	alc12mth	alc1mth	alcnm	alcnum
1	1	3	1	95	1
2	2	3	1	8	2
3	3	3	1	8	4
4	4	3	1	20	2
5	5	3	1	28	6
6	6	3	1	95	1
7	7	3	1	20	2
8	8	3	1	8	1
9	9	2	2	0	0
10	10	3	1	28	2
11	11	3	1	4	2
12	12	2	2	0	0
13	13	3	1	95	1
14	14	3	1	8	8
15	15	3	1	28	1
16	16	3	1	8	7
17	17	3	1	1	5
18	18	3	1	4	4
19	19	3	1	8	4

The interface also shows a status bar at the bottom indicating 'Total rows: 1000 of 23129' and 'Query complete 00:00:00.943'.

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No limit

Query Query History

```
1 select * from blood_pressure;
```

Scratch Pad

Data Output Messages Notifications

	seqno [PK] integer	syscat integer	diascat integer	hyper integer	hatcs integer	pharm integer	bpsalt2 integer	bpwgt2 integer	bpsat2 integer	bpsmok2 integer	bpsalc2 integer
1	1	1	1	1	0	0	0	0	0	0	0
2	2	4	2	1	1	1	0	0	0	0	0
3	3	1	3	0	0	0	0	0	0	0	0
4	4	6	4	1	4	0	0	0	0	0	0
5	5	6	6	1	2	1	0	0	0	0	0
6	6	2	2	1	1	0	0	0	0	0	0
7	7	2	1	0	0	0	0	0	0	0	0
8	8	2	2	0	0	0	0	0	0	0	0
9	9	2	2	0	0	0	0	0	0	0	0
10	10	3	1	1	1	1	0	0	0	0	0
11	11	1	1	0	0	0	0	0	0	0	0
12	12	4	2	0	0	0	0	0	0	0	0
13	13	2	1	0	0	0	0	0	0	0	0
14	14	2	3	0	0	0	0	0	0	0	0
15	15	3	1	0	0	0	0	0	0	0	0
16	16	1	4	1	4	0	0	0	0	0	0
17	17	2	3	0	0	0	0	0	0	0	0
18	18	2	1	0	0	0	0	0	0	0	0

Total rows: 1000 of 23129 Query complete 00:00:00.412 Ln 1, Col 29

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Query Query History

```
1 select * from cardiac_fact;
```

Scratch Pad

Data Output Messages Notifications

	salt_key integer	physical_activity_level_key integer	past_medical_history_key integer	cardiac_risk_factors_awareness_key integer	framingham_score integer	ascvd_score real
1	1		1	1	1	0 999
2	2		2	2	2	17 31.7
3	3		3	3	3	999 999
4	4		4	4	4	30 36.7
5	5		5	5	5	999 13.7
6	6		6	6	6	0 999
7	7		7	7	7	3 9.1
8	8		8	8	8	10 13.6
9	9		9	9	9	0 999
10	10		10	10	10	20 20.9
11	11		11	11	11	0 999
12	12		12	12	12	14 19.5
13	13		13	13	13	1 1.2
14	14		14	14	14	0 999
15	15		15	15	15	3 4.1
16	16		16	16	16	999 999
17	17		17	17	17	0 999
18	18		18	18	18	999 999

Total rows: 1000 of 23129 Query complete 00:00:00.354 Ln 1, Col 27

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Query Query History

```
1 select * from cardiac_risk_factors_awareness;
```

Scratch Pad

Data Output Messages Notifications

	seqno [PK] integer	hdprev integer	hddiet integer	hdwgt integer	hdfats integer	hdsalt integer	hdcholbd integer	hdcholfd integer	hdstress integer	hdtired integer	hdexer integer
1	1	1	1	2	1	1	2	2	1	2	1
2	2	2	2	2	2	2	2	2	1	2	2
3	3	1	2	1	1	1	2	2	2	2	1
4	4	1	2	2	2	2	1	2	2	2	2
5	5	2	2	2	2	2	2	2	2	2	2
6	6	1	2	2	2	1	1	2	2	2	2
7	7	8	1	2	2	2	2	2	2	2	1
8	8	8	2	2	1	2	2	2	2	2	2
9	9	1	1	2	2	2	1	2	2	1	2
10	10	1	2	1	2	2	2	2	1	1	2
11	11	1	1	1	2	2	1	2	1	2	1
12	12	1	2	2	2	2	1	2	2	2	2
13	13	1	1	1	2	2	2	2	2	2	1
14	14	1	2	2	1	1	2	2	2	2	2
15	15	1	2	2	2	2	2	2	2	2	1
16	16	2	2	1	2	2	1	2	1	2	2
17	17	1	1	2	1	1	1	1	1	2	1
18	18	1	1	2	2	2	1	2	2	2	2

Total rows: 1000 of 23129 Query complete 00:00:00.330 Ln 1, Col 45

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Dashboard Properties SQL Statistics Dependencies Dependents Processes postgres/postgres@PostgreSQL 15\*

postgres/postgres@PostgreSQL 15

No limit

Query Query History

```
1 select * from demographics;
```

Scratch Pad

Data Output Messages Notifications

	seqno [PK] integer	prov integer	sex integer	age integer	educ integer	income integer	incadeq integer	employ integer	worktype integer	marital integer	househid integer	
1	1	10	2	22	4	3	2	2	1	3	2	
2	2	10	2	69	2	3	3	7	0	4	1	
3	3	10	2	30	3	2	2	1	2	1	1	
4	4	10	1	66	2	2	2	5	4	2	1	
5	5	10	1	47	1	9	9	3	6	3	7	
6	6	10	2	38	2	3	2	7	0	3	6	
7	7	10	2	66	3	3	2	7	0	3	2	
8	8	10	1	53	2	2	2	1	2	2	1	
9	9	10	1	21	3	9	9	2	6	1	2	
10	10	10	1	68	4	4	3	2	1	3	2	
11	11	10	2	39	3	4	3	7	0	3	4	
12	12	10	2	68	2	9	9	7	0	4	1	
13	13	10	2	51	4	3	2	1	1	3	3	
14	14	10	1	31	2	2	2	1	6	3	2	
15	15	10	2	60	4	4	3	1	1	3	2	
16	16	10	1	39	3	4	3	1	1	3	5	
17	17	10	1	34	4	3	2	1	1	3	2	
18	18	10	2	19	3	1	1	8	0	1	2	

Total rows: 1000 of 23129 Query complete 00:00:00.335 Ln 1, Col 27



pgAdmin 4

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      - diabetes
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Dashboard Properties SQL Statistics Dependencies Dependents Processes postgres/postgres@PostgreSQL 15\*

postgres/postgres@PostgreSQL 15

Query Query History

```
1 select * from diabetes;
```

Scratch Pad

Data Output Messages Notifications

	seqno [PK] integer	diabet integer	diabage integer	dbnotrt integer	dbins integer	dbrx integer	dbdiet integer	dbwgt integer	dbdk integer
1	1	2	0	0	0	0	0	0	0
2	2	1	40	1	2	2	2	2	2
3	3	2	0	0	0	0	0	0	0
4	4	2	0	0	0	0	0	0	0
5	5	1	45	1	2	2	2	2	2
6	6	2	0	0	0	0	0	0	0
7	7	2	0	0	0	0	0	0	0
8	8	1	20	2	2	1	2	2	2
9	9	2	0	0	0	0	0	0	0
10	10	2	0	0	0	0	0	0	0
11	11	2	0	0	0	0	0	0	0
12	12	2	0	0	0	0	0	0	0
13	13	2	0	0	0	0	0	0	0
14	14	2	0	0	0	0	0	0	0
15	15	2	0	0	0	0	0	0	0
16	16	2	0	0	0	0	0	0	0
17	17	2	0	0	0	0	0	0	0
18	18	2	0	0	0	0	0	0	0
19	19	2	0	0	0	0	0	0	0

Total rows: 1000 of 23129 Query complete 00:00:00.343 Ln 1, Col 23

pgAdmin 4

File Object Tools Help

Browser

Foreign Data Wrappers

Languages

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physical\_measurements

salt

tobacco

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Dashboard Properties SQL Statistics Dependencies Dependents Processes postgres/postgres@PostgreSQL 15\*

postgres/postgres@PostgreSQL 15

No limit

Query Query History

1 select \* from lipids\_profile;

Scratch Pad

Data Output Messages Notifications

seqno [PK] integer

tchol real

tcholat integer

hdl real

ldl real

trig real

bchrx integer

bchfat integer

bchwgt integer

cholbp integer

cholha integer

1

3.44

1

1.34

1.77

0.71

2

2

2

2

2

2

7.14

3

0.67

999.99

8.91

2

1

2

2

2

3

999.97

7

999.97

999.97

999.97

0

0

0

0

0

4

5.3

2

1.01

999.99

5

2

2

2

2

5

3.18

1

0.96

1.41

1.8

2

2

2

2

6

5.28

2

1.19

3.22

1.9

2

1

2

1

7

4.32

1

1.97

2.11

0.54

2

1

2

2

8

6.23

3

0.91

4.88

0.98

2

1

2

2

9

6.67

3

1.68

4.52

1.04

2

2

2

2

10

5.02

1

1.14

3.41

1.04

1

1

2

1

11

4.4

1

1.81

2.25

0.75

2

1

2

1

12

7.53

3

1.29

5.43

1.77

2

1

2

2

13

5.79

2

1.63

3.84

0.71

2

1

2

2

14

6.18

2

1.09

4.09

2.21

2

1

2

2

15

4.76

1

1.01

3.43

0.71

2

1

2

1

16

999.97

7

999.97

999.97

999.97

2

1

2

1

17

5.33

2

1.01

3.61

1.57

2

1

2

2

18

5.04

1

1.14

2.96

2.09

2

1

2

2

19

4.03

1

1.14

2.14

1.67

2

1

2

2

Total rows: 1000 of 23129

Query complete 00:00:00.243

Ln 1, Col 29

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Dashboard Properties SQL Statistics Dependencies Dependents Processes postgres/postgres@PostgreSQL 15\*

postgres/postgres@PostgreSQL 15

No limit

Query Query History

1 select \* from past\_medical\_histo

Execute/Refresh F5

Scratch Pad

Data Output Messages Notifications

	seqno [PK] integer	everha integer	everstr integer	othhd integer	rxheart integer	femrx integer
1	1	2	2	2	2	3
2	2	1	2	1	1	3
3	3	2	2	2	2	3
4	4	2	2	2	2	0
5	5	2	2	2	2	0
6	6	2	2	2	2	3
7	7	2	2	1	1	2
8	8	2	2	2	2	0
9	9	2	2	2	2	0
10	10	2	1	2	1	0
11	11	2	2	2	2	3
12	12	2	1	2	2	3
13	13	2	2	2	2	3
14	14	2	2	2	2	0
15	15	2	2	2	2	3
16	16	2	2	2	2	0
17	17	2	2	2	2	0
18	18	2	2	2	2	1
19	19	2	2	2	2	0

Total rows: 1000 of 23129 Query complete 00:00:00.250 Ln 1, Col 35

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File Object Tools Help

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Dashboard Properties SQL Statistics Dependencies Dependents Processes postgres/postgres@PostgreSQL 15\*

postgres/postgres@PostgreSQL 15

Query Query History

```
1 select * from physical_activity_level;
```

Scratch Pad

Data Output Messages Notifications

	seqno [PK] integer	sedent integer	exer integer	exerstrn integer	exerlong integer	exerwork integer
1	1	0	1	1	3	1
2	2	1	2	0	0	0
3	3	0	1	2	3	2
4	4	0	1	2	3	0
5	5	1	2	0	0	0
6	6	0	1	2	4	0
7	7	0	1	3	3	0
8	8	1	2	0	0	2
9	9	0	1	2	4	2
10	10	0	1	1	3	2
11	11	0	1	2	2	2
12	12	1	2	0	0	0
13	13	0	1	3	1	2
14	14	1	2	0	0	1
15	15	0	1	2	2	2
16	16	0	1	2	2	2
17	17	0	1	1	4	2
18	18	0	1	1	3	2
19	19	1	2	0	0	1

Total rows: 1000 of 23129 Query complete 00:00:00.246 Ln 1, Col 38

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Dashboard Properties SQL Statistics Dependencies Dependents Processes postgres/postgres@PostgreSQL 15\*

postgres/postgres@PostgreSQL 15

Query Query History

```
1 select * from physical_measurements;
```

Scratch Pad

Data Output Messages Notifications

	seqno [PK] integer	htgc integer	wgtc integer	bmi integer	bmicat integer	waist integer	hip integer	whr integer	whrcat integer	pulse integer
1	1	168	83	29	4	997	997	99	7	72
2	2	161	76	29	4	997	997	99	7	80
3	3	997	997	999	7	997	997	99	7	997
4	4	168	83	29	4	997	997	99	7	88
5	5	166	65	23	2	997	997	99	7	72
6	6	167	71	25	3	997	997	99	7	80
7	7	155	48	20	2	997	997	99	7	64
8	8	174	59	19	1	997	997	99	7	76
9	9	188	58	17	1	997	997	99	7	68
10	10	178	90	28	4	997	997	99	7	50
11	11	165	62	22	2	997	997	99	7	56
12	12	170	50	17	1	997	997	99	7	68
13	13	156	56	23	2	997	997	99	7	84
14	14	178	79	24	2	997	997	99	7	88
15	15	166	58	20	2	997	997	99	7	80
16	16	997	997	999	7	997	997	99	7	997
17	17	182	93	27	4	997	997	99	7	76
18	18	154	66	27	4	997	997	99	7	76
19	19	171	73	25	3	997	997	99	7	68

Total rows: 1000 of 23129 Query complete 00:00:00.282 Ln 1, Col 36

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  - > Tablespace

Dashboard Properties SQL Statistics Dependencies Dependents Processes postgres/postgres@PostgreSQL 15\*

postgres/postgres@PostgreSQL 15

No limit

Query Query History

```
1 select * from salt;
```

Scratch Pad

Data Output Messages Notifications

	seqno [PK] integer	saltcook integer	saltfood integer	saltbp integer	saltha integer	saltstr integer
1	1	2	3		1	2
2	2	4	4		1	2
3	3	3	4		1	2
4	4	1	1		2	2
5	5	1	1		1	2
6	6	1	2		1	2
7	7	1	4		1	2
8	8	1	4		2	2
9	9	1	1		1	2
10	10	3	4		1	2
11	11	1	1		1	2
12	12	3	4		1	2
13	13	1	4		1	2
14	14	1	1		1	2
15	15	3	4		1	2
16	16	1	1		1	2
17	17	3	3		1	2
18	18	4	4		1	2
19	19	2	4		2	2

Total rows: 1000 of 23129 Query complete 00:00:00.339 Ln 1, Col 19

