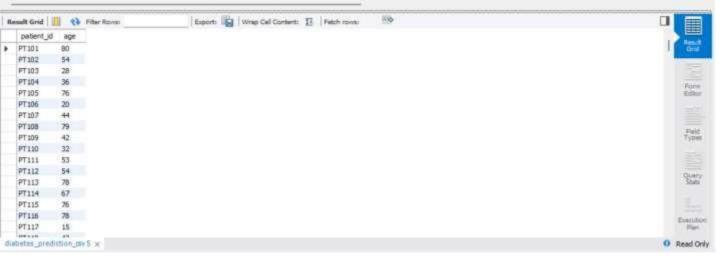
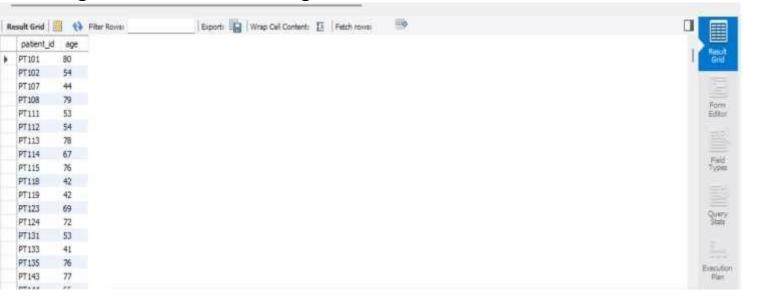
#1. Retrieve the Patient_id and ages of all patients.

select patient_id,age from diabetes_prediction_csv;



#2. Select all female patients who are older than 40.

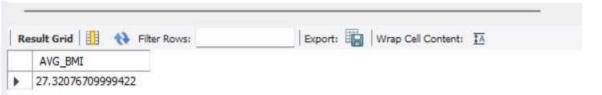
select patient_id,age from diabetes_prediction_csv where gender='Female' and age > 40;



SQL Project Diabetes Prediction

#3. Calculate the average BMI of patients;

select avg(bmi) as AVG_BMI from diabetes_prediction_csv;



#4. List patients in descending order of blood glucose levels.

select employeename,patient_id,blood_glucose_level from diabetes_prediction_csv order by blood_glucose_level desc;



#5 Find patients who have hypertension and diabetes.

select * from diabetes prediction csv where hypertension =1 and diabetes=1;

Result Grid	Filter Rover			Equit: I	Wrap Cell Content	E Fetch rove		9			
Employeef varne	Patient_id	gender	age	hypertensors	heart_disease	snoking_factory	bm	HbA1c_level	blood_glucose_level	dabetes	
EARRY WONG	PT3429	Male	48	1	0	current	27.32	8.2	155	1	
DYELDA JOHNSON	PT3450	Female	58	1	0	never	58.52	6.6	130	1	
CYNTHIA GAABUC	FT3454	Female	28	1	0	never	42.44	5.8	130	1	
ALISON YEE	PT3576	Female	40	1	1	former	50.86	6	159	1	
SOCORRO SISON	PT3581	Pemale	73	1	0	never	22.8	9	126	1	
JASON JACKSON	PT3638	Female	74	1	0	never	29.74	5.8	220	1	
ANTHONY SAN JOSE	PT3721	Male	26	1	0	current	20.04	7.5	155	1	
MA GRACIA LOPEZ	PT3773	Male	47	1	0	current	96.61	8.2	145	1	
ERINA FACULTAD	PT3830	Male	65	1	0	former	33.9	5.8	160	1	
RYAN MAK	PT3913	Female	59	1	0	never	38.1	6.6	140	1	
JOCELYN MADAMBA	PT3914	Female	65	I	0	never	37.2	6.8	160	1	
FIDEL GONZALEZ	PT3919	Male	61	13	0	former	27.88	9	200	1	
FERN EBELING	PT3955	Female	61	1	0	never	38.95	6	240	1	
ROBERT CAPPA	PT4103	Female	73	1	0	never	27.8	5.8	280	1	
THERESA CONWAY	PT4172	Penale	56	1	0	not current.	28,22	7.5	140	1	
CAMPION CARDIN	PT4190	Favorin	An.	19	n	frymer	77 R	6.8	200	1	

#6 Determine the number of patients with heart disease.

select count(*) as Patients_With_HeartDisease from diabetes_prediction_csv
where heart_disease=1;



#7 Group patients by smoking history and count how many smokers and nonsmokers there are.

select smoking_history,count(*) from diabetes_prediction_csv
group by smoking_history;



#8 Retrieve the Patient_ids of patients who have a BMI greater than the average BMI.

select * from diabetes_prediction_csv

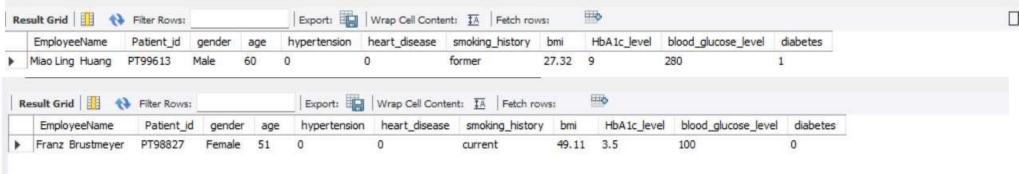
where bmi > (select avg(bmi) from diabetes_prediction_csv);

	() Filter A					p Cell Content: I		110				
EmployeeNe	ste	Patient_id	gender	age	hypertension	heart_disease	smoking_history	bmi	MbA1c_level	blood_glucose_level	dabetes	
MICHAEL MO	RRIS I	PT109	Male	42	0	0	peyer	33.64	4.8	145		
PATRICIA JA	LOISON I	PT112	Female	54	0	0	former	54.7	6	100	0	
EDWARD HA	REDWITON I	PT113	Female	78	0	0	former -	36.05	5	130	0	
AMY HART	1	PT117	Mole	15	0	0	never	30.35	6.1	200	0	
VEHUS AZAR		PT121	Male	40	0	0	current	36.38	6	90	0	
VICTOR WYR	SCH I	PT124	Female	72	0	1	former	27.94	6.5	130	0	
GREGORY SL	HR I	PT 126	Male	30	0	0	never	33.75	6.1	126	0	
RAYMOND G	UZMAN I	P7128	Mele	40	0	0	former	27,85	5.8	80	0	
HARLAN KEL	LY-JR I	PT131	Fenale	53	0	0	No Info	31.75	4	200	0	
BRENDAN W	ARD 8	PT 140	Female	34	0	0	never	56.43	6.2	200		
THOMAS SIR	AGUSA I	PT143	Female	77	1	1	never	32.02	5	159	0	
MICHAEL TH	ONPSON I	PT 144	Female	66	0	0	No Info	29.3	4.8	159	0	
JAMES DUDU	ET I	PT 149	Female	38	0	0	never	28,27	6.2	155	0	
MICHAEL RO	LONOH I	PT153	Female	74	0	0	No Info	28.12	5	100	0	
KEVIN CASH	MAN I	FT 156	Male	50	0	0	former	37.15	9	159	1	
at acretic re		PTIAN	Familia	6.7	7		Decies	61.49	8.6	ice		

#9 Find the patient with the highest HbA1c level and the patient with the lowest HbA1c level

select * from diabetes_prediction_csv order by HbA1c_level Desc limit 1;

select * from diabetes_prediction_csv order by HbA1c_level limit 1;



#10 Calculate the age of patients in years (assuming the current date as of now)-----

SELECT Patient_id, age, YEAR(curDATE())-age AS AgeInYearsFROM diabetes_prediction_csv;



#11Rank patients by blood glucose level within each gender group.

select Patient_id,gender,blood_glucose_level, rank() over (partition by gender order by blood_glucose_level desc) AS GlucoseRank from diabetes_prediction_csv;

	Patient_id	gender	blood_glucose_level	GlucoseRank	
۰	PT96902	Female	300	1	
	PT97622	Female	300	1	
	PT96346	Female	300	1	
	PT97955	Female	300	1	
	PT97671	Female	300	1	
	PT96328	Female	300	1	
	PT98911	Female	300	1	
	PT98538	Female	300	1	
	PT97570	Female	300	1	
	PT98454	Female	300	1	
	PT99638	Female	300	1	
	PT97141	Female	300	1	
	PT96371	Female	300	1	
	PT96815	Female	300	1	
	PT96814	Female	300	1	
D.	PT97970	Famale	700	1	

```
#12 update the smoking history of patients who are older than 50 to "Ex-smoker."
UPDATE diabetes_prediction_csv
SET smoking history = 'Ex-smoker' WHERE age > 50;
#13 Insert a new patient into the database with sample data.
INSERT INTO diabetes prediction csv (EmployeeName, Patient id, gender, age,
hypertension, heart_disease, smoking_history,
bmi, HbA1c level, blood glucose level, diabetes) VALUES ('Ravi', 'PT1141', 'Male', 23, 0,0, 'Never',
20, 6.6, 100,0);
#14 Delete all patients with heart disease from the database
delete from diabetes prediction csv where heart disease = 1;
#15 Find patients who have hypertension but not diabetes using the EXCEPT operator
select Patient id from diabetes prediction csv where hypertension =1 EXCEPT
select Patient id from diabetes prediction csv where diabetes =1;
#16 Define a unique constraint on the "patient_id" column to ensure its values are unique.
ALTER TABLE diabetes prediction csvADD UNIQUE (patient id(255));
#17 Create a view that displays the Patient ids, ages, and BMI of patients
CREATE VIEW PatientInfo ASSELECT Patient id, age, BMIFROM diabetes prediction csv;
SELECT * FROM PatientInfo;
```