```
create schema Healthcare;

Select * from healthcare.healthcare_dataset;

Note : This is Preview of data.
```

Patient_Name	Age	Gender	Blood_Ty	Medical_Condi	Date_of_Admiss	Doctor	Hospital	Insurance_Prov	Billing_Amou	Room_Numb	Admission_Ty	Discharge_C	Medicatio	Test_Results
Bobby JacksOn	30	Male	B-	Cancer	1/31/2024	Matthew Smith	Sons and Miller	Blue Cross	18856.28131	328	Urgent	2/2/2024	Paracetamo	Normal
LesLie TErRy	62	Male	A+	Obesity	8/20/2019	Samantha Davies	Kim Inc	Medicare	33643.32729	265	Emergency	8/26/2019	Ibuprofen	Inconclusive
DaNnY sMitH	76	Female	A-	Obesity	9/22/2022	Tiffany Mitchell	Cook PLC	Aetna	27955.09608	205	Emergency	10/7/2022	Aspirin	Normal
andrEw waTiS	28	Female	O+	Diabetes	11/18/2020	Kevin Wells	Hernandez Rogers and Vang,	Medicare	37909.78241	450	Elective	12/18/2020	Ibuprofen	Abnormal
adriENNE bEll	43	Female	AB+	Cancer	9/19/2022	Kathleen Hanna	White-White	Aetna	14238.31781	458	Urgent	10/9/2022	Penicillin	Abnormal
EMILY JOHNSOn	36	Male	A+	Asthma	12/20/2023	Taylor Newton	Nunez-Humphrey	UnitedHealthcare	48145.11095	389	Urgent	12/24/2023	Ibuprofen	Normal
edwArD EDWaRDs	21	Female	AB-	Diabetes	11/3/2020	Kelly Olson	Group Middleton	Medicare	19580.87234	389	Emergency	11/15/2020	Paracetamo	Inconclusive
CHrisTinA MARtinez	20	Female	A+	Cancer	12/28/2021	Suzanne Thomas	Powell Robinson and Valdez,	Cigna	45820.46272	277	Emergency	1/7/2022	Paracetamo	Inconclusive
JASmINe aGuIlaR	82	Male	AB+	Asthma	7/1/2020	Daniel Ferguson	Sons Rich and	Cigna	50119.22279	316	Elective	7/14/2020	Aspirin	Abnormal
ChRISTopher BerG	58	Female	AB-	Cancer	5/23/2021	Heather Day	Padilla-Walker	UnitedHealthcare	19784.63106	249	Elective	6/22/2021	Paracetamo	Inconclusive
mIchELLe daniELs	72	Male	O+	Cancer	4/19/2020	John Duncan	Schaefer-Porter	Medicare	12576.79561	394	Urgent	4/22/2020	Paracetamo	Normal
aaRon MARtiNeZ	38	Female	A-	Hypertension	8/13/2022	Douglas Mayo	Lyons-Blair	Medicare	7999.58688	288	Urgent	9/5/2023	Lipitor	Inconclusive
connOR HANsEn	75	Female	A+	Diabetes	12/12/2019	Kenneth Fletcher	Powers Miller, and Flores	Cigna	43282.28336	134	Emergency	12/28/2019	Penicillin	Abnormal
rObeRt bAuer	68	Female	AB+	Asthma	5/22/2020	Theresa Freeman	Rivera-Gutierrez	UnitedHealthcare	33207.70663	309	Urgent	6/19/2020	Lipitor	Normal
bRODIE brady	44	Female	AB+	Cancer	10/8/2021	Roberta Stewart	Morris-Arellano	UnitedHealthcare	40701.59923	182	Urgent	10/13/2021	Paracetamo	Normal
MS. nAtalIE gAMble	46	Female	AB-	Asthma	1/11/2023	Maria Dougherty	Cline-Williams	Blue Cross	12263.35743	465	Elective	1/11/2023	Aspirin	Inconclusive
haley perkins	63	Female	A+	Arthritis	6/23/2020	Erica Spencer	Cervantes-Wells	UnitedHealthcare	24499.8479	114	Elective	7/14/2020	Paracetamo	Normal
mRS. jamiE cAMPBELl	38	Male	AB-	Obesity	3/8/2020	Justin Kim	Torres, and Harrison Jones	Cigna	17440.46544	449	Urgent	4/2/2020	Paracetamo	Abnormal
LuKE BuRgEss	34	Female	A-	Hypertension	3/4/2021	Justin Moore Jr.	Houston PLC	Blue Cross	18843.02302	260	Elective	3/14/2021	Aspirin	Abnormal
dANIEL schmidt	63	Male	B+	Asthma	11/15/2022	Denise Galloway	Hammond Ltd	Cigna	23762.20358	465	Elective	11/22/2022	Penicillin	Normal

```
# Name, Age, Gender, Blood Type, Medical Condition, Date of Admission,
Doctor, Hospital,
# Insurance Provider, Billing Amount, Room Number, Admission Type,
Discharge Date, Medication, Test Results

alter table  healthcare.healthcare_dataset
rename column `Name` to Patient_Name;
alter table  healthcare.healthcare_dataset
rename column `Blood Type` to Blood_Type;
alter table  healthcare.healthcare_dataset
rename column `Medical Condition` to Medical_Condition;
alter table  healthcare.healthcare_dataset
rename column `Date of Admission` to Date_of_Admission;
alter table  healthcare.healthcare_dataset
rename column `Insurance Provider` to Insurance_Provider;
alter table  healthcare.healthcare_dataset
rename column `Billing Amount` to  Billing_Amount;
alter table  healthcare.healthcare_dataset
rename column `Room Number` to Room_Number;
alter table  healthcare.healthcare_dataset
rename column `Admission Type` to Admission_Type;
alter table  healthcare.healthcare_dataset
rename column `Discharge Date` to Discharge_Date;
alter table  healthcare.healthcare_dataset
rename column `Test Results` to Test_Results;
commit;

# Note : Removed spaces from the columns and changed it to using "_"
to avoid error while refering columns.




#  Total Billing Amount per Insurance Provider.

select Insurance_Provider, round(sum(Billing_Amount),2) as  Total_Bill
```

```
from healthcare.healthcare_dataset
Group by Insurance_Provider
order by Total_Bill Desc;
```

	Insurance_Provider	Total_Bill
▶	Cigna	287139345.27
	Medicare	285720758.13
	Blue Cross	283254294.21
	UnitedHealthcare	282454542.84
	Aetna	278863102.95

```
#  Patients Admitted in the Last Year.

select *
from healthcare.healthcare_dataset
where year(Date_of_Admission) = 2023;
```

	Patient_Name	Hospital
▶	EMILY JOHNSOn	Nunez-Humphrey
	aaRon MARtiNeZ	Lyons-Blair
	MS. nAtalIE gAMble	Cline-Williams
	tIMOTHY burNs	Jones LLC
	cathy sMaLl	Brown, and Jones Weaver

```
select *
from healthcare.healthcare_dataset
where year(Date_of_Admission) = year(curdate()- interval 1 year);


# Top 5 Doctors by Number of Patients.

select Doctor,count(*) As Patient_count
from healthcare.healthcare_dataset
group by Doctor
order by Patient_count Desc
Limit 5;
```

Doctor	Patient_count
Michael Smith	27
Robert Smith	22
John Smith	22
James Smith	20
Michael Johnson	20

Write an SQL query to find the highest Paid Hopsitals.

```
select
Hospital, round(sum(billing_amount)) as total_amount_paid
from healthcare.healthcare_dataset
group by hospital
order by total_amount_paid desc
Limit 5;
```

Hospital	total_amount_paid
Johnson PLC	1084202.69
LLC Smith	1030189.87
Smith PLC	1029424.45
Ltd Smith	1003365.53
Smith Ltd	970035.87

Top 10 insure provider with amount paid.

```
select
Insurance_Provider,round(sum(Billing_Amount)) as Paid_amount
from healthcare.healthcare_dataset
group by Insurance_Provider
order by Paid_amount desc
Limit 10;
```

Insurance_Provider	Paid_amount
Cigna	287139345.27
Medicare	285720758.13
Blue Cross	283254294.21
UnitedHealthcare	282454542.84
Aetna	278863102.95

Find the Patient details who admitted on 01-01-2024.

```sql
select Patient_Name,Date_of_Admission
from healthcare.healthcare_dataset
where Date_of_Admission = '2024-01-01';
```

Patient_Name	Date_of_Admission
▶ mICHAEl PARkER	2024-01-01
juliA wade	2024-01-01
JUstIn bRYANt	2024-01-01
renee wiLlIAMs	2024-01-01
gaBRieL BROWN	2024-01-01

Prevoius Month report.

```sql
select *
from healthcare.healthcare_dataset
where Date_of_Admission between '2024-01-01' and '2024-01-31';
```

Patient_Name	Hospital	Date_of_Admission
▶ Bobby JacksOn	Sons and Miller	2024-01-31
dWAYnE DAViS	Ltd Thomas	2024-01-15
JAMEs Ross	Cox-Hester	2024-01-13
aPRIL VAleNCIA	Levine-Miller	2024-01-04
riTA archER	and Marquez Silva Smith,	2024-01-05

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Prev month patient details.

```sql
select *
from healthcare.healthcare_dataset
where Date_of_Admission >= date_format((curdate() - interval 1
month),'%Y-%M-01')
and Date_of_Admission < date_format ((curdate()- interval 1 month
),'%Y-%M-31');
```

Gender wise count of patients

```
select gender, count(*) as Total_patients
from healthcare.healthcare_dataset
group by gender;
```

	Gender	Total_patients
▶	Male	27774
	Female	27726

year wise count of patients

```
select year(Date_of_Admission ) as year, count(*) as Total_patients
from healthcare.healthcare_dataset
group by year;
```

	Gender	Total_patients
▶	Male	27774
	Female	27726

monthly patiently details

```
select year(Date_of_Admission ) as year,month(Date_of_Admission ) as
month, count(*) Total_patients
from healthcare.healthcare_dataset
group by year,month
order by year,month;
```

	Year	Month	Total_patients
▶	2019	5	686
	2019	6	907
	2019	7	957
	2019	8	1001
	2019	9	936