

```
create schema Healthcare;
```

```
select * from healthcare.healthcare_dataset;
```

Note : This is Preview of data.

Patient_Name	Age	Gender	Blood_Type	Medical_Condit	Date_of_Admiss	Doctor	Hospital	Insurance_Prov	Billing_Amo	Room_Num	Admission_Type	Discharge_Date	Medication	Test_Results
Bobby JacksOn	30	Male	B-	Cancer	1/31/2024	Matthew Smith	Sons and Miller	Blue Cross	18956.28131	328	Urgent	2/22/2024	Paracetam	Normal
Leslie Terfry	62	Male	A+	Obesity	8/20/2019	Samantha Davies	Kim Ino	Medicare	33643.32723	269	Emergency	8/26/2019	Ibuprofen	Inconclusive
Danny aMHI	76	Female	A-	Obesity	9/22/2022	Tiffany Mitchell	Cook P.L.C	Aetna	27955.09608	205	Emergency	10/7/2022	Aspirin	Normal
andrew vaits	29	Female	O+	Diabetes	11/18/2020	Kevin Valls	Hernandez Rogers and Vang	Medicare	37903.78241	450	Elective	12/18/2020	Ibuprofen	Abnormal
adrienne Bell	43	Female	AB+	Cancer	9/19/2022	Kathleen Hanna	White-White	Aetna	34238.31781	458	Urgent	10/9/2022	Penicillin	Abnormal
EMILY JOHNSOn	36	Male	A+	Asthma	12/20/2023	Taylor Newton	Nunez-Humphrey	United-Healthcare	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	Paracetam	Inconclusive
Christina MARTinez	20	Female	A+	Cancer	12/28/2021	Suzanne Thomas	Powell Robinson and Valdez	Cigna	45820.48272	277	Emergency	1/7/2022	Paracetam	Inconclusive
JASmine xGutier	82	Male	AB+	Asthma	7/12/2020	Daniel Ferguson	Sons Rich and	Cigna	50118.22279	516	Elective	7/14/2020	Aspirin	Abnormal
CHRISTopher BerG	58	Female	AB-	Cancer	5/23/2021	Heather Day	Padilla-Walker	United-Healthcare	19784.83106	249	Elective	6/22/2021	Paracetam	Inconclusive
nickELLE daniELs	72	Male	O+	Cancer	4/19/2020	John Duncan	Schaefer-Porter	Medicare	12576.79561	394	Urgent	4/22/2020	Paracetam	Normal
aaron MARtinNeZ	38	Female	A-	Hypertension	8/13/2023	Douglas Mayo	Lyons-Blair	Medicare	7999.58688	288	Urgent	9/5/2023	Lipitor	Inconclusive
connOR HANnEn	75	Female	A+	Diabetes	12/12/2018	Kenneth Fletcher	Powers Miller, and Flores	Cigna	43282.28338	134	Emergency	12/28/2018	Penicillin	Abnormal
ClareR Dwyer	69	Female	AB+	Asthma	5/22/2020	Theresa Freeman	Rivera-Curienes	United-Healthcare	33007.70963	309	Urgent	6/19/2020	Lipitor	Normal
broDIE brady	44	Female	AB+	Cancer	10/8/2021	Roberta Stewart	Morris-Avellano	United-Healthcare	40701.59923	182	Urgent	10/13/2021	Paracetam	Normal
MS. nAtalie gAMble	46	Female	AB-	Obesity	1/12/2023	Maria Dougherty	Cline-Williams	Blue Cross	12283.35743	465	Elective	1/11/2023	Aspirin	Inconclusive
haley perkins	63	Female	A+	Arthritis	6/23/2020	Erica Spencer	Cervantes-Wells	United-Healthcare	24439.8473	114	Elective	7/14/2020	Paracetam	Normal
mRS Jemie CAMPBELL	39	Male	AB-	Obesity	3/8/2020	Justin Kim	Torres, and Harrison Jones	Cigna	17440.46544	449	Urgent	4/2/2020	Paracetam	Abnormal
LUCIE BuRgetz	34	Female	A-	Hypertension	3/4/2021	Justin Moore Jr.	Houston P.L.C	Blue Cross	18843.02302	260	Elective	3/14/2021	Aspirin	Abnormal
IANIFI cokolob	63	Male	B+	Asthma	11/15/2022	Danica Salazar	Hammoud-Lot	Cigna	27762.20768	481	Elective	11/22/2022	Paracetam	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;
```

Note : Removed spaces from the columns and changed it to using "_" to avoid error while referring 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 sMaLI	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 Hospitals.

```
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.
```

```
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.
```

```
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

```
# Prev month patient details.
```

```
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