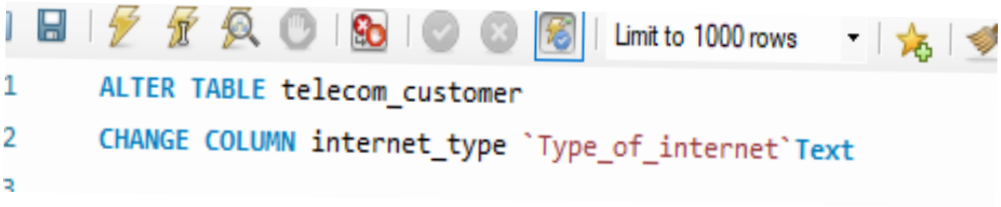
MY SQL QUERIES

Telecom Customer

CHANGE COLUMN NAME internet_type to 'Type_of_internet'

ALTER TABLE telecom_customer

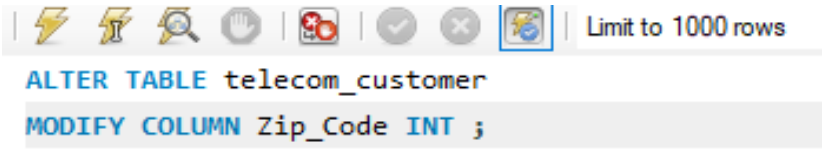
CHANGE COLUMN internet_type `Type_of_internet`Text



ALTER DATE Zip_Code COLUMN TO INT DATA TYPE

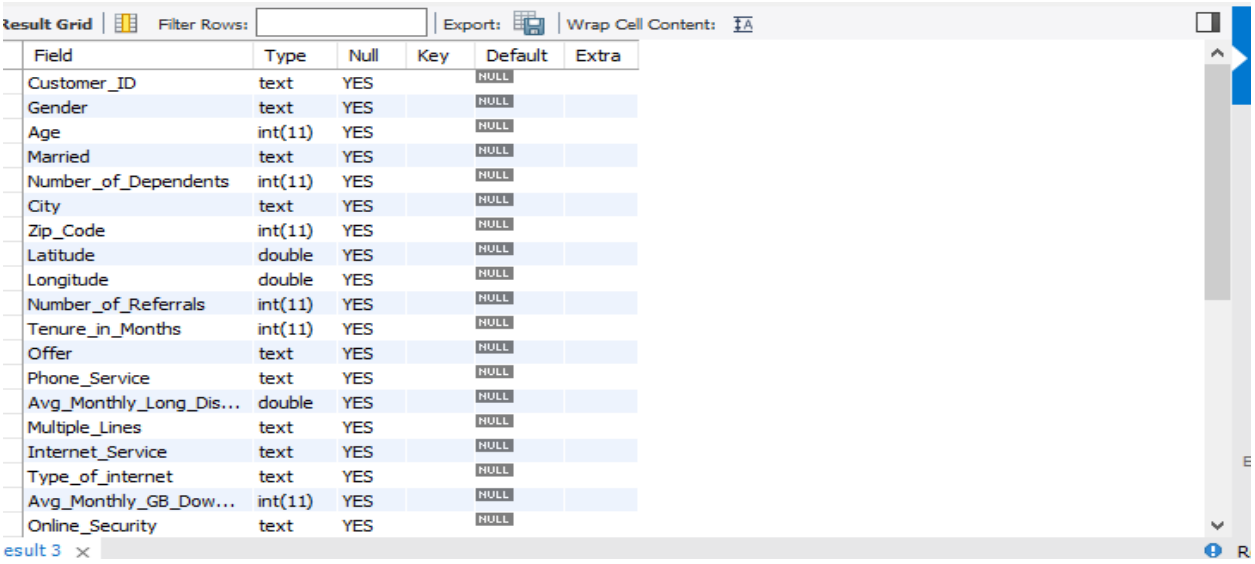
ALTER TABLE telecom_customer

MODIFY COLUMN Zip_Code INT ;



DATA TYPES OF DIFFERENT COLUMNS

DESCRIBE telecom_customer;



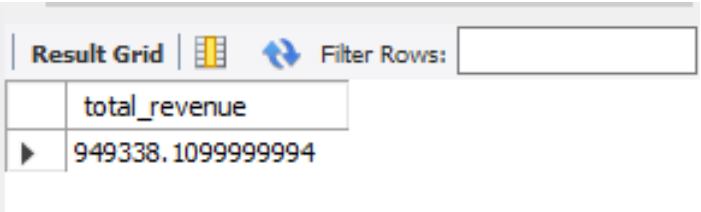
Field	Type	Null	Key	Default	Extra
Customer_ID	text	YES		NULL	
Gender	text	YES		NULL	
Age	int(11)	YES		NULL	
Married	text	YES		NULL	
Number_of_Dependents	int(11)	YES		NULL	
City	text	YES		NULL	
Zip_Code	int(11)	YES		NULL	
Latitude	double	YES		NULL	
Longitude	double	YES		NULL	
Number_of_Referrals	int(11)	YES		NULL	
Tenure_in_Months	int(11)	YES		NULL	
Offer	text	YES		NULL	
Phone_Service	text	YES		NULL	
Avg_Monthly_Long_Dis...	double	YES		NULL	
Multiple_Lines	text	YES		NULL	
Internet_Service	text	YES		NULL	
Type_of_internet	text	YES		NULL	
Avg_Monthly_GB_Dow...	int(11)	YES		NULL	
Online_Security	text	YES		NULL	

TOTAL revenue

```
SELECT SUM(Total_Charges + Total_Long_Distance_Charges + Total_Extra_Data_Charges -
Total_Refunds)

AS total_revenue

FROM telecom_customer
```



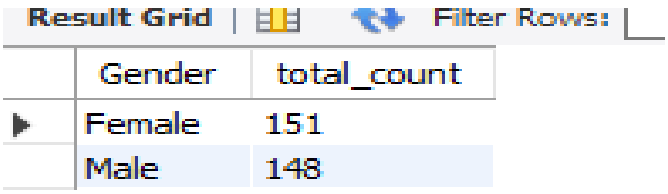
Result Grid | Filter Rows:

	total_revenue
▶	949338.1099999994

Calculate clients by Gender

```
SELECT Gender,  COUNT(*) AS total_count

FROM telecom_customer    GROUP BY Gender ;
```



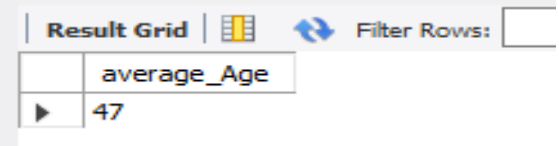
Result Grid | Filter Rows:

	Gender	total_count
▶	Female	151
	Male	148

Calculate Average of Age

```
SELECT ROUND(AVG(Age)) AS average_Age

FROM telecom_customer ;
```



Result Grid | Filter Rows:

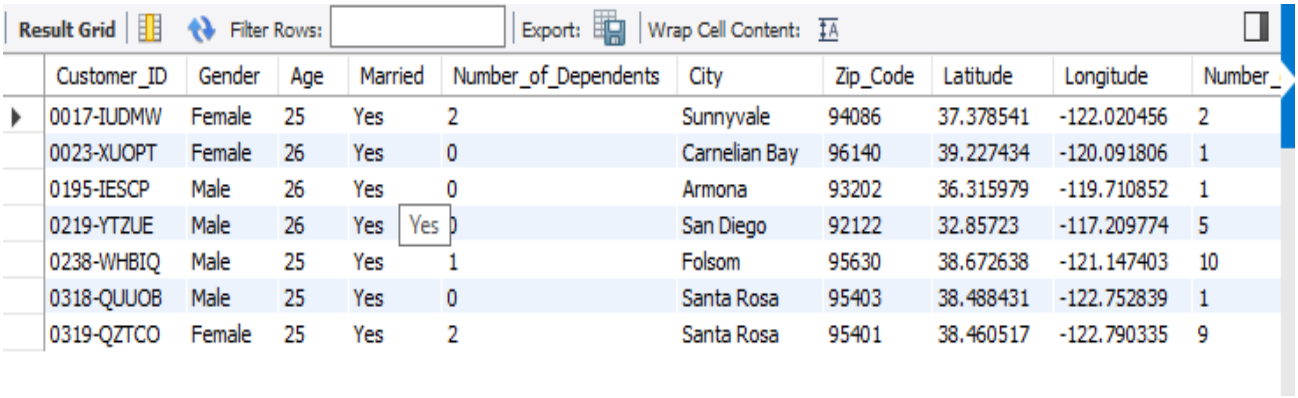
	average_Age
▶	47

Calculate status by age

```
SELECT * FROM telecom_customer

WHERE Age BETWEEN 25 AND 27
```

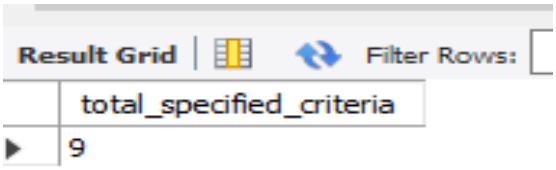
AND Married = 'Yes' ;



Customer_ID	Gender	Age	Married	Number_of_Dependents	City	Zip_Code	Latitude	Longitude	Number_
0017-IUDMW	Female	25	Yes	2	Sunnyvale	94086	37.378541	-122.020456	2
0023-XUOPT	Female	26	Yes	0	Carnelian Bay	96140	39.227434	-120.091806	1
0195-IESCP	Male	26	Yes	0	Armona	93202	36.315979	-119.710852	1
0219-YTZUE	Male	26	Yes	Yes	San Diego	92122	32.85723	-117.209774	5
0238-WHBIQ	Male	25	Yes	1	Folsom	95630	38.672638	-121.147403	10
0318-QUUOB	Male	25	Yes	0	Santa Rosa	95403	38.488431	-122.752839	1
0319-QZTCO	Female	25	Yes	2	Santa Rosa	95401	38.460517	-122.790335	9

The total count of individuals who satisfy the specified criteria

```
SELECT
   SUM(CASE
   WHEN Type_of_internet = 'Fiber Optic'
   AND Contract = 'Two Year'
   AND Payment_Method = 'Credit Card'
   THEN 1
   ELSE 0
   END) AS total_specified_criteria
   FROM telecom_customer ;
```



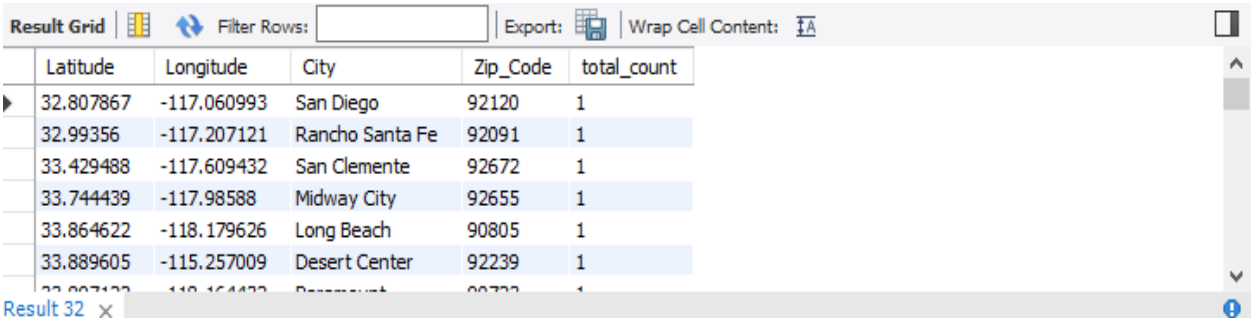
total_specified_criteria
9

The total count by searching specified values about area

```
SELECT
Latitude, Longitude, City, Zip_Code,
COUNT(*) AS total_count FROM telecom_customer
WHERE Online_security = 'Yes'
AND Premium_Tech_Support = 'Yes'
AND Unlimited_Data = 'Yes'
```

GROUP BY

Latitude, Longitude, City, Zip_Code ;



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

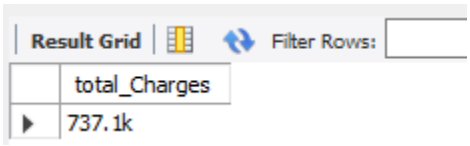
Latitude	Longitude	City	Zip_Code	total_count
32.807867	-117.060993	San Diego	92120	1
32.99356	-117.207121	Rancho Santa Fe	92091	1
33.429488	-117.609432	San Clemente	92672	1
33.744439	-117.98588	Midway City	92655	1
33.864622	-118.179626	Long Beach	90805	1
33.889605	-115.257009	Desert Center	92239	1

Result 32

Calculate exact rounded of total charges

SELECT CONCAT(ROUND(SUM(Total_Charges)/1000,1),'k') AS total_Charges

FROM telecom_customer

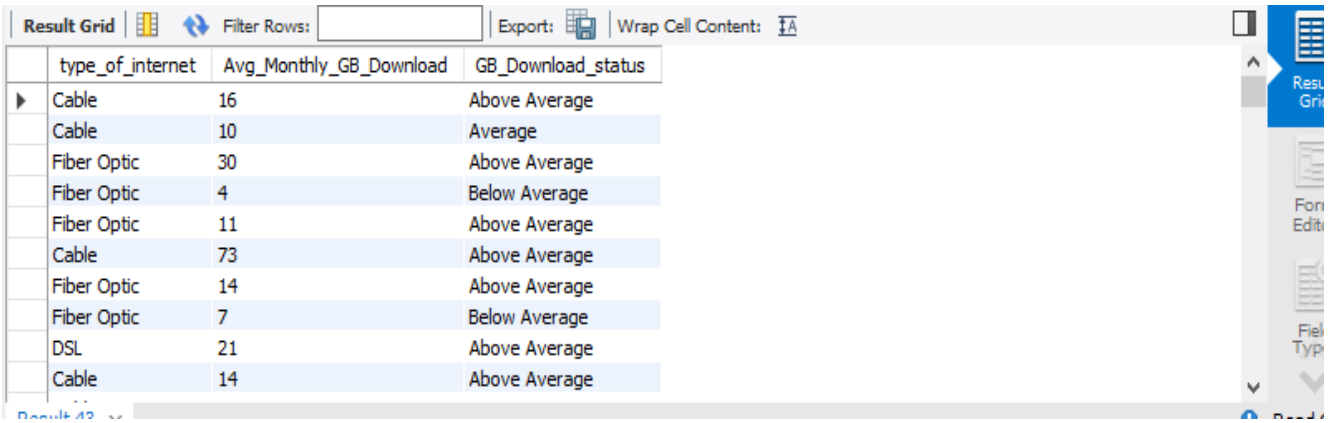


Result Grid | Filter Rows:

total_Charges
737.1k

COMPARING Avg_Monthly_GB_Download – IF GREATER THAN "ABOVE AVERAGE" and LESSER THAN "BELOW AVERAGE"

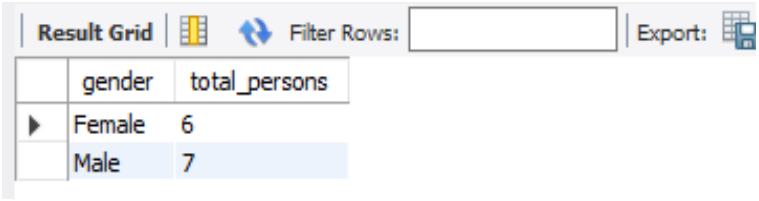
```
SELECT
type_of_internet, Avg_Monthly_GB_Download,
   CASE
      WHEN Avg_Monthly_GB_Download>10 THEN 'Above Average'
      WHEN Avg_Monthly_GB_Download<10 THEN 'Below Average'
      ELSE 'Average'
   END AS GB_Download_status
FROM
telecom_customer
```



type_of_internet	Avg_Monthly_GB_Download	GB_Download_status
Cable	16	Above Average
Cable	10	Average
Fiber Optic	30	Above Average
Fiber Optic	4	Below Average
Fiber Optic	11	Above Average
Cable	73	Above Average
Fiber Optic	14	Above Average
Fiber Optic	7	Below Average
DSL	21	Above Average
Cable	14	Above Average

Comparing between clients how many people we have and who for cities.

```
SELECT
   gender,
   COUNT(*) AS total_persons
FROM
   telecom_customer
WHERE
   city = 'Los Angeles'
GROUP BY
   gender;
```



gender	total_persons
Female	6
Male	7