ALIENS OF AMERICA
SQL ANALYSIS

EFFECTUATED THROUGH,

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CHALLENGE !!

The Challenge is to analyze and understand the demographic characteristics of individuals reporting encounters with aliens in America. To identify patterns and trends in reported encounter types across different demographics, including gender, age (based on birth year), and a occupation.

TABLES

Table 1
"Aliens of America-Aliens"

ID
Name
Email
Gender
Type
Birth year

Table 2
"Aliens of America-Details"

Detail ID
Favorite Food
Feeding Frequency
Aggressive

Table 3
"Aliens of America-Location"

Loc_ID
Current Location
Occupation
Geography

```sql
# How many aliens were reported in each state?

Select
    Distinct State , count(Name) as "Count of Aliens"
From
    `aliens of america - location` , `aliens of america - aliens`
Where
    `aliens of america - location`.loc_id = `aliens of america - aliens`.id
group by
    State ;
```

1) How many aliens were reported in each state?

Result:

Result Grid | Filter Rows:

State	Count of Aliens
Ohio	1851
Maryland	598
California	5410
Virginia	1749
Georgia	1431
Washington	971
Michigan	1016
Florida	4176
Illinois	1223
Wisconsin	579
Connecticut	697
Nebraska	420
Pennsylvania	1590
Texas	5413
Missouri	1102
North Caro...	1248
Kansas	676
South Dakota	141
Rhode Island	53
Oklahoma	756
Hawaii	227
Arkansas	282
Minnesota	1067

Query 1 | Ques-2 | Ques-3 | Ques-4 | Ques-5 | Ques-6 | Ques-7 | Dques-8 | Dques-9 | D1ques-10 | D1ques-11 | D1ques-12 | Ques-1 | aliens of america - aliens

Don't Limit

```sql
#Sum of type of alien species has been reported?

Select
    Type, COUNT(*) AS ReportCount
From
    `alien`.`aliens of america - aliens`
Group by
    Type
Order by
    ReportCount DESC
Limit 5;
```

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

Type	ReportCount
Flatwoods	10124
Nordic	10033
Reptile	9964
Green	9948
Grey	9931

2) Sum of type of alien species has been reported?

Query 1 | Ques-2 | Ques-3 | Ques-4 | Ques-5 | Ques-6 | Ques-7 | Dques-8 | Dques-9 | D1ques-10 | D1ques-11 | D1ques-12 | Ques-1 | aliens of america - aliens

Don't Limit

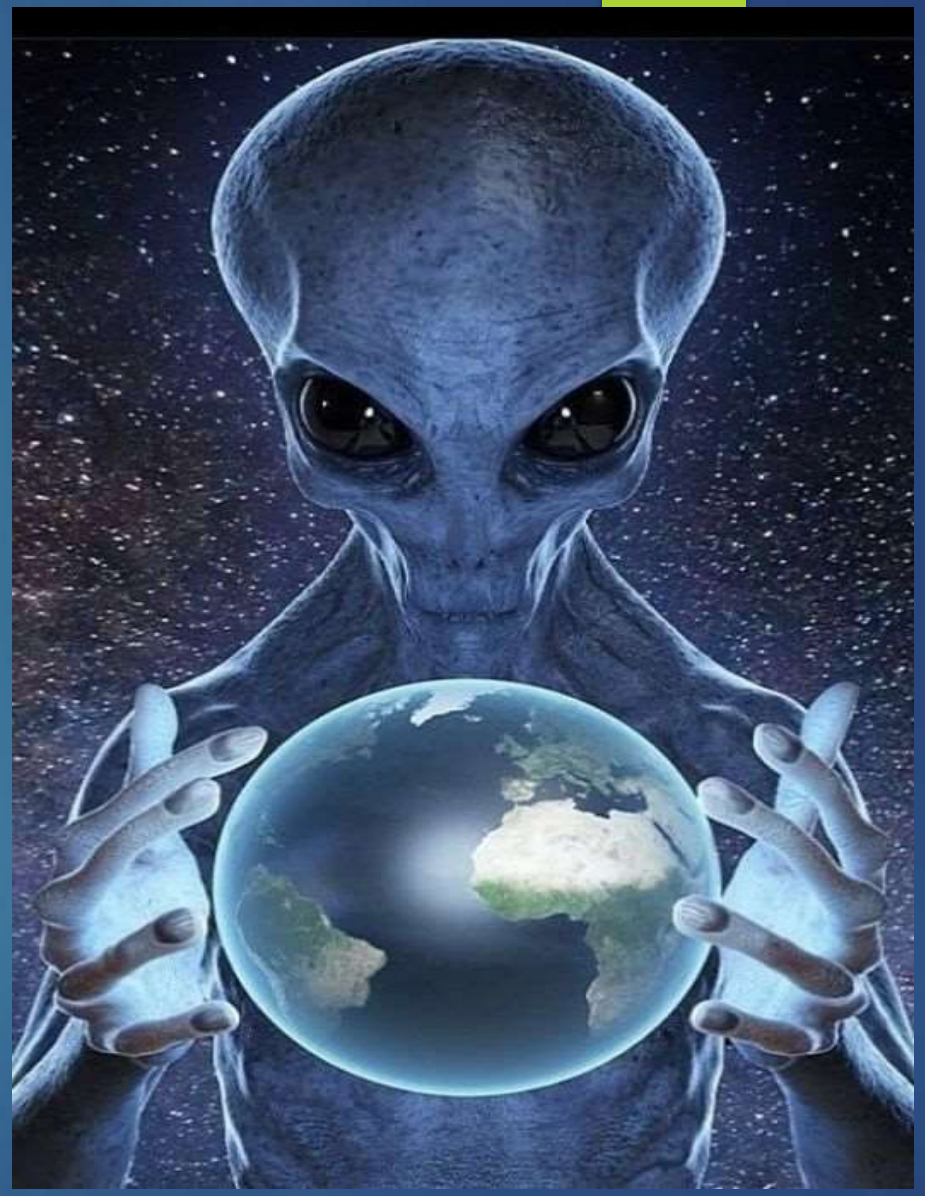
```
1  # Diffrent Types Of Aliens And It's Gender ?
2
3  Select
4      Distinct(gender),(type)
5  From
6      `aliens of america - aliens`
7  order by
8      gender ;
```

3) Different types of aliens and its gender?

Result:

Result Grid | Filter Rows: | Expo

gender	type
Agender	Green
Agender	Grey
Agender	Nordic
Agender	Reptile
Bigender	Flatwoods
Bigender	Green
Bigender	Grey
Bigender	Nordic
Bigender	Reptile
Female	Flatwoods
Female	Green
Female	Grey
Female	Nordic
Female	Reptile
Genderf...	Flatwoods
Genderf...	Green
Genderf...	Grey
Genderf...	Nordic
Genderf...	Reptile
Gender...	Flatwoods



Query 1 | Ques-2 | Ques-3 | Ques-4 | Ques-5 | Ques-6 | Ques-7 | Dques-8 | Dques-9 | D1ques-10 | D1ques-11 | D1ques-12 | Ques-1 | aliens of america - aliens

Don't Limit

```
1   # How many males and females are represented in the dataset?
2
3 • Select
4       gender,count(*) as "Total Male And female"
5   From
6       alien.`aliens of america - aliens`
7   where
8       gender = "Female" or gender = "Male"
9   Group by
10      gender;
```

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

gender	Total Male And female
Female	22730
Male	22323

4) How many males and females are represented in the dataset?

Query 1 | Ques-2 | Ques-3 | Ques-4 | Ques-5 | Ques-6 | Ques-7 | Dques-8 | Dques-9 | D1ques-10 | D1ques-11 | D1ques-12 | Ques-1 | aliens of america - aliens

Don't Limit

```
1   #  No of Types of occupations were aliens Working In ?
2
3 • SELECT
4       count(distinct(occupation)) As "Total Occupations"
5   FROM
6       alien.`aliens of america - location`;
```

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

Total Occupations
195

5) No of types of occupations were aliens working in ?

Query 1 | Ques-2 | Ques-3 | Ques-4 | Ques-5 | Ques-6 | Ques-7 | Dques-8 | Dques-9 | D1ques-10 | D1ques-11 | D1ques-12 | Ques-1 | aliens of america - aliens

Don't Limit

```sql
# Top 5 email domain appears most frequently in the dataset?

select
    SUBSTRING_INDEX(email, '@', -1) AS domain_name,
    count(*) as domain_count
from
    `aliens of america - aliens`
group by
    domain_name
order by
    domain_count desc
Limit 5;
```

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

domain_name	domain_count
nature.com	133
vinaora.com	129
usatoday.com	126
joomla.org	124
examiner.com	121

6) Top 5 email domain appears most frequently in the dataset?

Query 1 | Ques-2 | Ques-3 | Ques-4 | Ques-5 | Ques-6 | Ques-7 | Dques-8 | Dques-9 | D1ques-10 | D1ques-11 | D1ques-12 | Ques-1 | aliens of america - aliens

Dont Limit

```
1   # How many individuals were born in each decade (e.g., 1980s, 1990s)?
2
3 • Select
4       concat(Floor(birth_year / 10)*10 , 's') AS Decade ,
5       Count(*) As Num_individuals
6   From
7       `aliens of america - aliens`
8   Group by
9       concat(Floor(birth_year / 10)*10 , 's')
10  Order by
11      Decade Desc;
```

7) How many individuals were born in each decade(e.g., 1980s, 1990s) ?

Result:

Result Grid | Filter Rows:

Decade	Num_individuals
1740s	1650
1750s	1617
1760s	1585
1770s	1562
1780s	1675
1790s	1623
1800s	1684
1810s	1687
1820s	1645
1830s	1662
1840s	1726
1850s	1683
1860s	1711
1870s	1702
1880s	1652
1890s	1640
1900s	1601
1910s	1735
1920s	1632
1930s	1677
1940s	1666
1950s	1641
1960s	1689
1970s	454

Query 1 | Ques-2 | Ques-3 | Ques-4 | Ques-5 | Ques-6 | Ques-7 | Dques-8 | Dques-9 | D1ques-10 | D1ques-11 | D1ques-12 | Ques-1 | aliens of america - aliens

Don't Limit

```sql
# What are the top 5 most common favorite foods in the dataset?

Select
    Favorite_food , count(*) AS Frequency
From
    `aliens of america - details`
Group by
    favorite_food
Order by
    Frequency desc
Limit 5;

```

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

Favorite_food	Frequency
Stork, european	54
Asiatic wild ass	54
Deer, barasingha	54
Crane, blue	54
White-throated monitor	52

8) What are the top 5 most common favorite foods in the dataset?

```sql
#How many individuals report either feeding frequency as "daily" or favorite food as "Water legaan"?

Select
    count(distinct(detail_id)) as 'Toatl Individuals'
From
    `aliens of america - details`
where
    feeding_frequency = 'daily' or favorite_food = 'Water legaan'
```

Toatl Individuals
6305

9) How many individuals report either feeding frequency as “daily” or favorite food as “water legaan”?

Query 1 | Ques-2 | Ques-3 | Ques-4 | Ques-5 | Ques-6 | Ques-7 | Dques-8 | Dques-9* | D1ques-10 | D1ques-11 | D1ques-12

Don't Limit

```sql
#What are the top 5 most common states represented in the dataset?

Select
    State , count(*) as Statecount
From
    `aliens of america - location`
Group by
    State
Order by
    Statecount
limit 5;
```

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

State	Statecount
Vermont	30
Maine	32
Wyoming	32
Rhode Island	53
New Hampshire	92

10) What are the top 5 most common states represented in the dataset?

Query 1 | Ques-2 | Ques-3 | Ques-4 | Ques-5 | Ques-6 | Ques-7 | Dques-8 | Dques

Don't Limit

```sql
#How many individuals are located in each State?

Select
    distinct(State), count(loc_id) As Num_individuals
From
    `aliens of america - location`
Group by
    State
Order BY Num_individuals desc
```

11) How many individuals are located in each state?

- **Result :**

Result Grid | Filter Rows:

State	Num_individuals
Texas	5413
California	5410
Florida	4176
New York	2690
Ohio	1851
Virginia	1749
District of Columbia	1661
Pennsylvania	1590
Georgia	1431
North Carolina	1248
Illinois	1223
Colorado	1175
Arizona	1122
Missouri	1102
Minnesota	1067
Alabama	1066
Indiana	1056
Michigan	1016
Washington	971
Louisiana	951
Tennessee	934
Massachusetts	767
Oklahoma	756

- 12) How many individuals have reported their occupation as “financial analyst” or “web designer I” and located in the Ohio?

Query 1 | Ques-2 | Ques-3 | Ques-4 | Ques-5 | Ques-6 | Ques-7 | Dques-8 | Dques-9* | D1ques-10 | D1ques-11 | D1ques-12 | Ques-1 | aliens of america - aliens

Don't Limit

```
1  #How many individuals have reported their occupation as "financial analyst" or "Web Designer I" and located in the Ohio?
2
3  Select
4      count(loc_id) as Num_Individuals
5  From
6      `aliens of america - location`
7  Where
8      occupation = 'financial analyst' or 'Web Designer I' and state = 'ohio' ;
```

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

Num_Individuals
431

Query 1 | Ques-2 | Ques-3 | Ques-4 | Ques-5 | Ques-6 | Ques-7 | Dques-8 | Dques-9* | D1ques-10 | D1ques-11 | D1ques-12 | Ques-1 | alie

Don't Limit

```sql
#What are the top 5 most common favorite foods among individuals located in California?

Select
    aod.favorite_food , count(id) as Food_count
From
    `aliens of america - aliens` as aoa
Join
    `aliens of america - details` as aod on aoa.id=aod.detail_id
Join
    `aliens of america - location` as aol on aoa.id = aol.loc_id
where
    aol.state = 'california'
Group by
    aod.favorite_food
order by
     Food_count desc
Limit 5;
```

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

favorite_food	Food_count
African snake (unidentified)	11
Racer snake	11
Lechwe, kafue flats	10
Anteater, australian spiny	10
Sunbird, lesser double-collared	10

13) What are the top 5 most common favorite foods among individuals located in California?

14) What are the top 3 most common combinations of favorite food and feeding frequency among individuals located in California?

Ques-4 | Ques-5 | Ques-6 | Ques-7 | Dques-8 | Dques-9* | D1ques-10 | D1ques-11 | D1ques-12 | Ques-1 | Ques13* | aliens of america - aliens | Ques-14 | aliens of america - location

Don't Limit

```sql
#What are the top 3 most common combinations of favorite food and feeding frequency among individuals located in California?

Select
    aod.favorite_food,aod.feeding_frequency,count(aol.loc_id) As combo_count
From
    `aliens of america - details` as aod
Join
    `aliens of america - location` as aol on aod.detail_id = aol.loc_id
Where
    aol.State = 'california'
Group by
    aod.favorite_food,aod.feeding_frequency
order by
    combo_count desc
Limit 3;
```

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

favorite_food	feeding_frequency	combo_count
White-tailed deer	Daily	4
Gonolek, burchell's	Monthly	4
Macaw, scarlet	Weekly	4

```
#How many individuals in the dataset report being aggressive and are located in

Select
     count(*) as Num_aggressive_individuals
From
    `aliens of america - details` as aod
Join
    `aliens of america - location` as aol on aod.detail_id = aol.loc_id
Where
    aod.aggressive = '1' or '2' and aol.state = 'Texas'
```

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

Num_aggressive_individuals
5413

15)How many individuals in the dataset report being aggressive and are located in texas?

THANK YOU !