

NAME LAWRENCE OGEA

1. Question

➤ **What is sql how is it useful**

SQL is a standard programming language used to manage relational database and perform various operations on the data in them.

QUESTION 2

Subcounty population density.

➤ **Create database for subcounty_population_density**

SHOW DATABASES;

create database subcounty_population_density;

use subcounty_population_density;

➤ **write a statement to create table for the data above**

```
CREATE TABLE subcounty_population_density (  
    id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,  
    county_name VARCHAR(250) NOT NULL,  
    subcounty_name VARCHAR(500) NOT NULL,  
    total INT,  
    male INT,  
    female INT,  
    square_kms INT,  
    pop_density INT  
);
```

➤ **Write statement to insert values in table subcounty_population_density**

```
INSERT INTO subcounty_population_density (  
    county_name, subcounty_name, total, male, female, square_kms, pop_density  
) VALUES  
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select * from subcounty_population_density;
```

- **write sql statement to display specific columns ;county name,subcounty name,total and population density for all records.**

```
select county_name,subcounty_name,total,square_kms,pop_density
from subcounty_population_density;
```

- **write an sql statement to display the county_name ,subcounty_name,total ,male ,female sorted by female population .subcounty with highest female population is on top.**

```
select county_name,subcounty_name,total,male,female
from subcounty_population_density
order by female desc;
```

- **write an sql query to calculate total population of all subcounties**

```
select sum(total)
from subcounty_population_density;
```

- **write an sql query that retrieves the county_name,the average population density of all subcounties .order the retrieved results by county name first and then population density descending .{group by aggregate function}**

```
select county_name,pop_density
from subcounty_population_density
order by county_name,pop_density desc;
```

- **write an sql query to retrieve rows where the subcounty is Nyandarua county .Notice some of these subcounties have typing mistakes .update the names of the subcounties without typing mistakes .(sql update)**

```
select county_name,subcounty_name
from subcounty_population_density
```

```
where county_name = "Nyandarua";
```

```
UPDATE subcounty_population_density  
set subcounty_name = "NYANDARUA NORTTH"  
WHERE subcounty_name ="NYANDARUANORTH";
```

```
UPDATE subcounty_population_density  
set subcounty_name = "NYANDARUA NORTTH"  
WHERE subcounty_name ="NYANDARUANORTH";
```

```
UPDATE subcounty_population_density  
set subcounty_name = "NYANDARUA WEST"  
WHERE subcounty_name ="NYANDARUAWEST";
```

```
UPDATE subcounty_population_density  
set subcounty_name = "NYANDARUA CENTRAL"  
WHERE subcounty_name ="NYANDARUACENTRAL";
```