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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 sub counties

```
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";
```