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QUESTION 1

EXPLAIN WHAT IS SQL HOW IS IT USEFUL

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

QUESTION 2

Subcounty_population_density

- **Create database for subcounty_population_density**

```
create database subcounty_population_density;  
use subcounty_population_density;
```

- **Write a statement to create table subcounty_population_density**

```
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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 ("Nairobi", "STAREHE", 210423, 109173, 101238, 21, 10205),
 ("Nairobi", "WESTLANDS", 308854, 153818, 155021, 98, 3167);

- **Write a SQL statement to display specific columns; the county_name, subcounty_name, total, square_kms and population_density for all records**

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

```
SELECT * FROM subcounty_population_density;
```

- **Write an SQL statement to display the county_name, subcounty_name, total, male, female sorted by female subcounty. Subcounty with highest female population on top**

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

- **Write an SQL statement query to calculate total population of all subcounties(USE SQL aggregate functions)**

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

- **Write an SQL query that retrieves the county_name, the average population density of the subcounties. Order by 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 in Nyandarua county. Notice some of these subcounties have typing mistakes. Update the names of the subcounties without typing mistakes**

```
SELECT county_name,subcounty_name from
subcounty_population_density where
county_name = "Nyandarua";
```

```
UPDATE subcounty_population_density set
subcounty_name = "NYANDARUA SOUTH"
WHERE subcounty_name =
"NYANDARUASOUTH";
```

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

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

```
SELECT county_name,subcounty_name from  
subcounty_population_density where  
county_name = "Nyandarua";
```