

FLEXTV DATABASE SYSTEM

OVERVIEW

The database utilized for this project was built using two tables: the customer table and the payment table, each of which has several columns. It contains statistics for a month's worth of subscriber information from several African countries.

The aim of this project is to understand the overall sales performance of this company in the month of June 2023.

PROBLEM STATEMENT

FlexTV, an online movie streaming service, has launched its website and mobile application for viewings in the latter week of May 2023.

The company had provided a 20% membership discount to the first consumers who subscribed within the next 30 days of June 2023.

Setup Database - Postgre SQL and PGAdmin console was used for this project.

SQL concepts that are used:

1. Basic operations: INSERT, UPDATE, DELETE, SELECT, JOIN
2. Clauses: WHERE, AND, GROUP BY, CASE etc
3. Operations on tables: CREATE, ALTER, Foreign Key Constraints
4. Indexes

QUESTIONS

1. How many customers subscribed in the month of June?

```
SELECT COUNT(*) FROM customer ;
```

Data Output		Messages
<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div></div>		
	<div><div>count</div><div>bigint</div><div></div></div>	
1	10	

2. How many customers subscribed with #4,000 and above and what country?

```
SELECT COUNT(customer_id),country,discount_price AS cal_discount_price
FROM payment
WHERE discount_price >=4000
GROUP BY cal_discount_price, country ;
```

Data Output

Messages

Notifications

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	count		country		cal_discount_price	
	bigint	🔒	character varying (20)	🔒	numeric	🔒
1	1		Ghana		4000.0	
2	1		Nigeria		4000.0	

3. List the first five customers to subscribe . Return customers name, email, country, and payment date.

```
SELECT DISTINCT (customer_id),first_name,last_name,email_address,Country,payment_date
FROM customer
LEFT JOIN payment ON payment.customer_id = customer. id
ORDER BY customer_id ASC
LIMIT 5 ;
```

Data Output Messages Notifications

	customer_id integer	first_name character varying (20)	last_name character varying (20)	email_address character varying (20)	country character varying (20)	payment_date timestamp without time zone
1	1	Linda	Franklin	Linda@gmail.com	Nigeria	2023-06-03 00:00:00
2	2	Ben	Adam	Ben@yahoo.com	Nigeria	2023-06-05 00:00:00
3	3	John	Williams	John@gmail.com	Nigeria	2023-06-10 00:00:00
4	4	Rejoice	Adam	Rejoice@yahoo.com	Ghana	2023-06-12 00:00:00
5	5	Deric	Raymod	Deric@yahoo.com	Nigeria	2023-06-20 00:00:00

4. How many subscribers are from Ghana ?

```
SELECT COUNT(*) FROM payment
WHERE country LIKE '%Ghana' ;
```

Data Output Messages

	count bigint
1	2

5. What medium was least used for payment?

```
SELECT DISTINCT subscription_medium,COUNT(*) FROM payment
GROUP BY subscription_medium
ORDER BY COUNT ASC
LIMIT 1 ;
```

Data Output Messages Notifications

	subscription_medium character varying (20)	count bigint
1	Website	4

6. List customer ids with minimum discount price.

```
SELECT customer_id,discout_price FROM payment
```

```
WHERE discout_price = (SELECT MIN(discout_price) from payment);
```

```
SELECT customer_id,discout_price FROM payment
```

```
WHERE discout_price = (SELECT MIN(discout_price) from payment) ;
```

Data Output			Messages	Notificatio
	customer_id	discout_price		
	integer	numeric		
1	1	2800.0		
2	3	2800.0		
3	5	2800.0		
4	7	2800.0		
5	8	2800.0		
6	10	2800.0		

7. What is the status of payment as 'Low','Standard',and 'High'?

```
ALTER TABLE payment RENAME discout_price to d_price ;
```

```
SELECT d_price,
```

```
CASE
```

```
WHEN d_price <=2800 then 'L'
```

```
WHEN d_price =4000 then 'H'
```

```
ELSE 'S'
```

```
END
```

```
AS price_status
```

FROM payment ;

Data Output

Messages

Notifi

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	<div>d_price</div> <div>numeric</div> <div>🔒</div>	<div>price_status</div> <div>text</div> <div>🔒</div>
1	2800.0	L
2	4000.0	H
3	2800.0	L
4	3360.0	S
5	2800.0	L
6	4000.0	H
7	2800.0	L
8	2800.0	L
9	3360.0	S
10	2800.0	L