Write a quer	y to find the details of the employ	ee whose name ends with the letter "I".
Table: empl	oyee	
emp_id	emp_name	city
123	Anil	Mumbai
456	Noha	Bengaluru
354	Francois	Delhi
213	Joe	Noida
567	Philip	Patna
458	Jhon	Pune
234	Sunil	Chennai 🔓
789	Neha	Hyderabad
145	Kalpana	Vizag

```
-- Query to find employees whose name ends with 'T'

SELECT *

FROM employee

WHERE emp_name LIKE '%T';

-- Query to perform top 6 operations based on employee ID

SELECT *

FROM employee

ORDER BY emp_id

LIMIT 6;

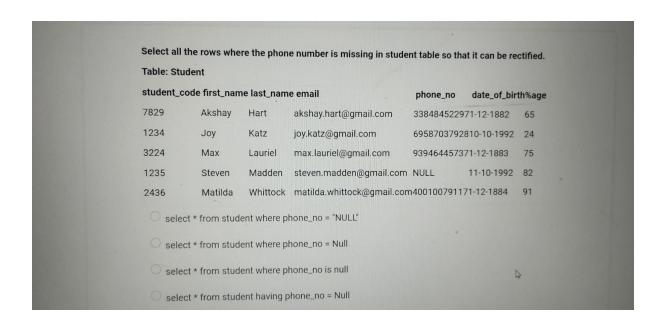
1. **Count the total number of employees:**
```

SELECT COUNT(*) AS total_employees

```sql

FROM employee;

```
2. **Find the maximum employee ID:**
 ```sql
 SELECT MAX(emp_id) AS max_emp_id
 FROM employee;
 3. **Get the employees sorted by city in ascending order:**
 ```sql
 SELECT *
 FROM employee
 ORDER BY city ASC;
4. **Find employees whose name starts with 'A':**
 ```sql
 SELECT *
 FROM employee
 WHERE emp_name LIKE 'A%';
5. **Find the average employee ID:**
 ```sql
 SELECT AVG(emp_id) AS avg_emp_id
 FROM employee;
```



### Query to Select Rows Where Phone Number is Missing:

```sql

SELECT *

FROM Student

WHERE phone_no IS NULL;

...

5 Different Operations with this Data:

- 1. **Calculate the Average Age:**
- Assuming the current date is needed to calculate age, you can calculate the average age of the students.

```sql

SELECT AVG(DATEDIFF(CURDATE(), date\_of\_birth) / 365.25) AS average\_age

FROM Student;

• • • •

2. \*\*Count the Total Number of Students:\*\*

```
```sql
 SELECT COUNT(*) AS total_students
 FROM Student;
3. **Find Students Whose Percentage is Above 80%:**
 ```sql
 SELECT *
 FROM Student
 WHERE percentage > 80;
4. **Get the Students Sorted by Last Name:**
 ```sql
 SELECT *
 FROM Student
 ORDER BY last_name ASC;
5. **Find the Student with the Earliest Date of Birth:**
 ```sql
 SELECT *
 FROM Student
 ORDER BY date_of_birth ASC
 LIMIT 1;
```

Table: Sess	ions	
session_id	user_idduration	
622	123 42	
710	125 70	
184	123 3	
875	156 66	
872	124 2	
538	145 92	
965	123 69	
817	125 88	
33	123 97	
198	156 48	
69	124 30	2
133	145 17	

```
1. **Identify users who have multiple sessions.**
```

2. \*\*Calculate the average session duration for those users.\*\*

Here's how you can do it in SQL:

```
""sql
WITH multiple_sessions AS (
-- Step 1: Find users with multiple sessions
SELECT user_id
FROM Sessions
GROUP BY user_id
HAVING COUNT(session_id) > 1
)
```

-- Step 2: Calculate the average session duration for those users

SELECT AVG(duration) AS average\_duration

**FROM Sessions** 

```
WHERE user_id IN (SELECT user_id FROM multiple_sessions);
```

## ### Explanation:

- Step 1: The `WITH multiple\_sessions` clause creates a temporary result set that includes only the `user\_id` of users who have more than one session.
- Step 2: The main query then selects the average duration of sessions for these users. The `IN` clause ensures that only sessions of users with multiple sessions are considered.

## \*E4\*

Table: Dea	Table: Dealer	
dealership	_iddescription	active
1234	SRI Santosh Dealers	1
4567	Sai Parts LTD	1
1457	Meghna dealership	0
3468	Vinayak Parts	1
03		
04		
0.5		
0 8		

## ### Dealer Table

```
3468
 dealership 0 |
| 3
 | Vinayak Parts | 1 |
04
 | (Missing Data) | 0 |
| 5
 | (Missing Data) | 8 |
SQL Operations on the Dealer Table:
 1. **Select all active dealerships:**
     ```sql
     SELECT *
      FROM Dealer
     WHERE active = 1;
    2. **Count the number of active dealerships:**
      ```sql
 SELECT COUNT(*) AS active_dealerships
 FROM Dealer
 WHERE active = 1;
 3. **Find dealerships with incomplete descriptions (assuming missing or NULL descriptions are
incomplete):**
     ```sql
      SELECT *
      FROM Dealer
     WHERE description IS NULL OR description = ";
 ...
    4. **List all dealerships sorted by dealership ID:**
     ```sql
```

```
SELECT *

FROM Dealer

ORDER BY dealership_id ASC;

...

5. **Update the `active` status of a specific dealership (for example, set `active` to `0` for `dealership_id = 1234`):**

...

...

VPDATE Dealer

SET active = 0

WHERE dealership_id = 1234;

...
```

## \*E5\*

• W w ni	Irite a query to calculate the product price is umber of products.	the average price of higher than or equ	f the products and to all to 1000.Return aver	count number of products rage product price and
Table :	sampletable			
id	name	price	company	
101	Mother Board	4500.00	Dell	
102	Key Board	450.00	Lenovo	
103	Printer	5000.00	Zebronics	
104	ZIP Drive	250.00	Dell	
105	DVD drive	400.00	Zebronics	
106	CD Drive	300.00	Zebronics	
107	Monitor	5000.00	HP	B
108	CPU	6000.00	HP	
109	Mouse	250.00	Lenovo	
110	Speaker	650.00	Sony	

```
```sql
SELECT
   AVG(price) AS average_price,
   COUNT(*) AS number_of_products_above_1000
FROM
```

```
sampletable
WHERE
price >= 1000;
```

Explanation:

- **AVG(price) AS average_price**: This calculates the average price of all products.
- **COUNT(*) AS number_of_products_above_1000**: This counts the number of products where the price is higher than or equal to 1000.
- **WHERE price >= 1000**: This condition filters the products to include only those with a price greater than or equal to 1000.

This query will return two results:

- 1. The average price of all products.
- 2. The count of products where the price is 1000 or higher.