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Experiment No.	3
Aim	Data retrieval using simple SQL commands and Aggregate Functions
Problem Statement	String Operations like%, like_, where with (<, >, <=, >=, <>), AND, OR, NOT IN, IN, BETWEEN Cartesian Product with 2 or more than 2 tables should be used. SUM, COUNT, MAX, MIN, AVG, GROUP BY and group by having clause.
Commands	mysql> select * from Donor; id firstname lastname contact email bloodgroup Age healthstatus 101 Sujal Dingankar 7798802841 sujal.dingankar@spit.ac.in O+ 20 Healthy 102 Shreeya Nemade 7698231082 shreeya.nemade@spit.ac.in A+ 19 Healthy 103 Harsha Surwase 5612798561 harsha.surwase@spit.ac.in B+ 21 Healthy 104 Avi Patil 1234598745 avinash.patil@spit.ac.in AB+ 18 Healthy 105 Shruti Bhuvad 455612345 shruti.bhuvad@spit.ac.in A+ 22 Healthy 5 rows in set (0.00 sec)
	mysql> select * from Donor where email like '%dingankar%'; id firstname lastname contact email bloodgroup Age healthstatus 101 Sujal Dingankar 7798802841 sujal.dingankar@spit.ac.in O+ 20 Healthy 1 row in set (0.00 sec)
	The above SQL command will retrieve records where the 'email' attribute contains the value 'dingankar' anywhere within it.
	mysql> select * from Donor where age >= 20; id firstname lastname contact email bloodgroup Age healthstatus
	101 Sujal Dingankar 7798802841 sujal.dingankar@spit.ac.in 0+ 20 Healthy 103 Harsha Surwase 5612798561 harsha.surwase@spit.ac.in B+ 21 Healthy 105 Shruti Bhuvad 455612345 shruti.bhuvad@spit.ac.in A+ 22 Healthy 105 Healt
	This command will retrieve records where age is greater than or equal to 20.
	mysql> select * from Donor where age <= 20 AND contact NOT LIKE '%0';
	id firstname lastname contact email bloodgroup Age healthstatu

This command retrieve records where age is equal or less than 20 and their

3 rows in set (0.00 sec)

contact no not ends with 0.



This command retrieves records where the blood group has exactly one character followed by a plus sign (+).



This command retrieves records where the blood group consists of exactly one character followed by a plus sign (`+`) or where the age is between 18 and 20, inclusive.

Aggregate Function:

```
mysql> select count(id) AS No_Of_Donor from Donor;
+-----+
| No_Of_Donor |
+-----+
| 5 |
+-----+
1 row in set (0.00 sec)
```

This query return the total no of donors present in the Donor table.

```
mysql> select avg(age) AS avg_Age from Donor;

+-----+

| avg_Age |

+-----+

| 20.0000 |

+-----+

1 row in set (0.00 sec)
```

This query return average age among the records present in the Donor table.

```
mysql> select min(age) AS min_Age from Donor;
+-----+
| min_Age |
+-----+
| 18 |
+-----+
1 row in set (0.00 sec)
```

This query returns minimum age among the records present in the Donor table.

```
mysql> select max(age) AS max_Age from Donor;
+-----+
| max_Age |
+-----+
| 22 |
+-----+
1 row in set (0.00 sec)
```

This query returns maximum age among the records present in the Donor table.

This query returns Total amount of Blood present in the records in Blood table.

Group By Clause:

This query returns no of blood donor for particular blood group.

