DATA ANALYSIS QUERIES

Query 1:

```
-- Performing Data Analysis
SELECT COUNT(*) AS total_donations
FROM Appointment
WHERE appdate BETWEEN '2020-12-01' AND '2021-01-22';
```

total_donations
6

Query 2:

```
-- Analyzing the trend in donations over months to identify peak donation times.
SELECT MONTH(appdate) AS month, COUNT(*) AS total_donations
FROM Appointment
GROUP BY MONTH(appdate)
ORDER BY month;
```

month	total_donations
1	5
12	3

Query 3:

```
-- Average Age of Donors
SELECT AVG(TIMESTAMPDIFF(YEAR, date_of_birth, CURDATE())) AS average_age
FROM Doner;
```

average_age
29.7778

Query 4:

```
-- Total Blood transacted
SELECT Blood_type, SUM(amount) AS Total_Blood
FROM Blood
Group By Blood_type
Order By Blood_type;
```

	Blood_type	Total_Blood
▶	A-	0.76
	A+	1.14
	AB+	0.75
	B-	0.23
	B+	0.10
	O-	0.92
	O+	0.99

Query 5:

```
-- Recent Donation
SELECT appdate, AppID
from Appointment
WHERE appdate <= CURDATE()
ORDER BY appdate DESC;
```

	appdate	AppID
▶	2021-01-25	A003
	2021-01-25	A006
	2021-01-22	A002
	2021-01-22	A005
	2021-01-22	A008
	2020-12-12	A001
	2020-12-12	A004
	2020-12-12	A007

Query 6:

```
-- Count Number of Doners Grouped By Gender
SELECT gender, COUNT(donerID) AS total_donors
FROM Doner
GROUP BY gender;
```

gender	total_donors
M	8
F	8

Query 7:

```
-- Number Of Receivers By Blood Type
SELECT Blood_type, count(receiverID) AS Total_Receivers
FROM Receiver
Group BY Blood_type;
```

Blood_type	Total_Receivers
A-	2
A+	2
AB-	2
AB+	2
B-	2
B+	2
O-	1
O+	2

Query 8:

```
-- Average Age of Receivers
SELECT AVG(TIMESTAMPDIFF(YEAR, date_of_birth, CURDATE())) AS average_age
FROM Receiver;
```

average_age
31.6667