

NORMALIZED TABLES

1) User table

```
mysql> desc user;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| userId         | int           | YES  |     | NULL    |       |
| date_of_cycle  | date          | NO   | PRI | NULL    |       |
| blood_flow     | varchar(20)   | YES  |     | NULL    |       |
| pain_level     | int           | YES  |     | NULL    |       |
| cycle_days     | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)
```

2) College facilities table

```
mysql> desc clg_facilities;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| machineId      | int           | NO   | PRI | NULL    |       |
| location       | varchar(100)  | YES  |     | NULL    |       |
| no_of_pads     | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

3) Wallet table

```
mysql> desc wallet;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| transId        | int           | NO   | PRI | NULL    |       |
| date_of_trans  | date          | YES  |     | NULL    |       |
| curr_bal       | int           | YES  |     | NULL    |       |
| withdrawn      | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

4) Transaction History table

```
mysql> desc trans_history;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| transId    | int  | NO   | PRI | NULL    |       |
| trans_date | date | YES  |     | NULL    |       |
| trans_amt  | int  | YES  |     | NULL    |       |
| user_id    | int  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)
```

5) Wastage table

```
mysql> desc wastage;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| machineId  | int  | NO   | PRI | NULL    |       |
| pads_used  | int  | YES  |     | NULL    |       |
| carbon_em  | float | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

SELECT * QUERIES

1) User table

```
mysql> select * from user;
```

userId	date_of_cycle	blood_flow	pain_level	cycle_days
101	2023-01-17	Light	2	5
101	2023-02-17	Light	1	5
101	2023-03-23	Medium	3	4
101	2023-04-19	Heavy	4	4
101	2023-05-18	Light	3	4
101	2023-06-21	Heavy	5	4
101	2023-07-22	Medium	2	4
101	2023-08-19	Medium	1	4
101	2023-09-18	Medium	2	5
101	2023-10-19	Light	3	4
101	2023-11-17	Light	1	4
101	2023-12-15	Normal	3	4
101	2024-01-15	Normal	2	5
101	2024-02-13	Heavy	4	4
101	2024-03-11	Normal	3	4
101	2024-04-11	Medium	2	4

16 rows in set (0.00 sec)

2) College Facilities table

```
mysql> select * from clg_facilities;
```

machineId	location	no_of_pads
2201	Main Bldg, 1st Floor	30
2202	Main Bldg, 2nd Floor	30
2203	Main Bldg, 3rd Floor	30
2204	Main Bldg, 5th Floor	30
2301	IT Bldg, 2nd Floor	25
2302	IT Bldg, 3rd Floor	25
2401	Mech Bldg, 2nd Floor	30
2402	Mech Bldg, 3rd Floor	30
2403	Mech Bldg, 4th Floor	30
2501	Instru Bldg, 1st Floor	25
2601	Mgmt Bldg, 2nd Floor	30
2602	Mgmt Bldg, 3rd Floor	30
2603	Mgmt Bldg, 4th Floor	30

13 rows in set (0.01 sec)

3) Wallet table

```
mysql> select * from wallet;
```

transId	date_of_trans	curr_bal	withdrawn
22	2023-10-19	450	12
25	2024-02-20	300	10
27	2023-01-19	488	12
28	2023-02-17	478	10
29	2023-03-25	470	8
30	2023-05-18	460	10
31	2023-09-18	452	8
32	2023-12-15	440	12
35	2024-01-16	430	10
36	2024-04-13	420	10

```
10 rows in set (0.01 sec)
```

4) Transaction History table

```
mysql> select * from trans_history;
```

transId	trans_date	trans_amt	user_id
22	2023-10-19	12	101
25	2024-02-20	10	101
27	2023-01-19	12	101
28	2023-02-17	10	101
29	2023-03-25	8	101
30	2023-05-18	10	101
31	2023-09-18	8	101
32	2023-12-15	12	101
35	2024-01-16	10	101
36	2024-04-13	10	101

```
10 rows in set (0.00 sec)
```

5) Wastage table

```
mysql> select * from wastage;
```

machineId	pads_used	carbon_em
2201	12	0.492
2202	8	0.328
2203	4	0.164
2204	7	0.287
2301	13	0.533
2302	5	0.205
2401	7	0.287
2402	9	0.369
2403	3	0.123
2501	2	0.082
2601	4	0.164
2602	11	0.451
2603	5	0.205

```
13 rows in set (0.01 sec)
```