Homework SQL - Gabriel Suciu

1. Create a table: "Account", with the following columns: Id, Owner, Balance, CreationDate, ExpirationDate;

```
CREATE TABLE Account(
   ID INTEGER PRIMARY KEY AUTOINCREMENT,
   Owner varchar(50),
   Balance decimal(10),
   CreationDate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
   ExpirationDate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP)
```

2. Insert 10 rows in Account;

```
INSERT INTO Account (ID, Owner, Balance, CreationDate, ExpirationDate) values
(1, 'Manchester United', 20000, '2014-09-12', '2023-04-02'),
(2, 'Liverpool', 8000, '2002-10-04', '2022-10-07'),
(3, 'Chelsea', 7500, '2008-01-29', '2021-01-14'),
(4, 'Real Madrid', 7000, '2018-04-19', '2026-01-02'),
(5, 'Barcelona', 2400, '2007-11-16', '2024-02-13'),
(6, 'Bayern Munchen', 9500, '2009-01-22', '2022-01-12'),
(7, 'PSG', 15000, '2017-09-09', '2029-12-24'),
(8, 'Borussia Dortmund', 4000, '2002-08-12', '2024-01-05'),
(9, 'Manchester City', 7000, '2019-08-18', '2022-01-10'),
(10, 'Juventus', 4500, '2017-02-24', '2022-10-10')
```

3. Select all rows;

4. Select the rows where Balance is less than 10000;

```
SELECT * FROM Account
WHERE Balance <= 10000
```

5. Select the rows where Balance is greater than 1000 and expiration date is less than 2 days from today;

```
SELECT * FROM Account
WHERE Balance >= 1000
AND ExpirationDate > DATE()
AND ExpirationDate < DATE('now','+2 days')
```

6. Update the balance for one of the id;

UPDATE Account SET Balance = 3300 WHERE ID = '5'

7. Delete one of the rows;

DELETE FROM Account WHERE Owner = 'Manchester City'

8. Calculate the total balance of all accounts;

SELECT SUM(Balance) FROM Account

9. Calculate the average balance of accounts grouped by owner;

SELECT AVG(Balance) FROM Account