SQL Assignment Report

SQL Queries:

```
SELECT username, email FROM user;
```

```
MariaDB [spendsmart] > SELECT username, email FROM user;
                          email
 username
 iman_kouri
                          kouri.iman@test-email.com
 angela_marino
                          ang.marino@test-email.com
 rhian_thompson-russel |
                          r.thompson-russel@test-email.com
 samar_shammas
                          samar_shammas@test-email.com
 sara_dujmovic
                          sara_dujmovic@test-email.com
 nguyen_le
                          n.le@test-email.com
 alex_santos
                          a.santos@test-email.com
                          yisun@test-email.com
 yi_sun
 hazel_rodriguez
                          hrodriguez@test-email.com
 melissa_anderson
                          melissa.anderson@test-email.com
```

```
SELECT user.username, user.user_id, credit_card_statements.amount
FROM credit_card_statements JOIN user ON user.user_id =
credit_card_statements.user_id;
```

```
ariaDB [spendsmart]> select user username, user user_id, credit_card_statements.merchant, credit_card_statements.amount from credit_
ard_statements join user on user.user_id = credit_card_statements.user_id;
 username
                             | user 1d | merchant
                                                                      amount
                                      1 | Hotel Booking
1 | Electronics Store
 iman_kouri
                                                                       95.30
                                                                      150.50
75.40
 iman_kouri
 angela_marino
angela_marino
angela_marino
                                         | Home Decor Store
                                         Gas Station
                                                                       45.90
 angeta_marino
rhian_thompson-russel
rhian_thompson-russel
rhian_thompson-russel
samar_shammas
samar_shammas
                                          Coffee Shop
                                          Fitness Center
                                                                        30.75
                                          Gift Shop
Grocery Store
Movie Theater
                                                                       50.20
                                                                        70.90
 samar_shammas
                                           Pharmacy
 sara_dujmovic
                                           Home Improvement
                                                                        85.60
 sara_dujmovic
                                           Diner
                                                                        30.25
 nguyen_le
                                          Bakery
Clothing Store
                                                                        6.75
 nguyen_le
nguyen_le
                                                                       60.75
                                           Bookstore
                                                                        40.90
 alex_santos
                                           Pet Grooming
 alex_santos
 y1_sun
                                          Furniture Store
                                                                      120.40
                                          Toy Store
Automotive Store
 y1_sun
                                                                       55.25
                                                                       90.80
 y1_sun
 hazel_rodriguez
                                          Music Store
                                                                       80.90
 hazel_rodriguez
                                           Art Supplies Store
 melissa_anderson
                                     10 | Jewelry Shop
10 | Sporting Goods
                                                                      150.75
 melissa_anderson
                                                                       70.40
6 rows in set (0.001 sec)
```

```
SELECT SUM(credit_card_statements.amount), credit_card_statements.user_id
FROM credit_card_statements
GROUP BY user_id;
```

```
SELECT * FROM utility_bills WHERE amount > 50;
```

```
MariaDB [spendsmart]> select * from utility_bills where amount > 50
  utility_bill_id | user_id | utility_company | bill_date | amount | category
                                                               | 2023-03-05 | 55.50 | Gas
                                 1 | Gas Co.
                                  2 | Electricity Co. | 2023-03-15 |
2 | Cable Co. | 2023-03-25 |
                                                                                     60.00 | Electricity
                                                                                     75.50
                                                                                                 Cable TV
                                  3 | Electricity Co. | 2023-04-05 |
4 | Cable Co. | 2023-04-15 |
5 | Gas Co. | 2023-04-25 |
                                                                                     65.75
                                                                                                 Electricity
                                                                                     70.25
                                                                                                 Cable TV
                                                                                     50.60 | Gas
                                  7 | Electricity Co. | 2023-05-15 | 65.40 | Electricity
9 | Cable Co. | 2023-06-10 | 85.75 | Cable TV
10 | Electricity Co. | 2023-06-20 | 60.75 | Electricity
9 rows in set (0.001 sec)
```

```
INSERT INTO user (username, email, password_hash)
VALUES ("pavel_polak","pavel_polak@test-email.com",
"1901a15662db83ab4b9e9448b83ace0f2ba02b34a090711525018f65d42b0d67");
```

```
MariaDB [spendsmart]> insert into user(username, email, p
db83ab4b9e9448b83ace0f2ba02b34a090711525018f65d42b0d67");
                                                      password_hash) values ("pavel_polak","pavel_polak@test-email.com","1901a15662
Query OK, 1 row affected (0.016 sec)
MariaDB [spendsmart]> select * from user;
                                 | password_hash
                                                                                                   | email
       1 | iman_kouri
                                 | e3f022dcfd97a20310068b8508ee0bc14430e4032c569c479f07de0b215fbea0 | kouri.iman@test-email.com
                                | b6e06de398fe29d6f1b77558fd1ae408cab385602c5c2bff715cfc227c83c14e | ang.marino@test-email.com
       2 | angela_marino
       3 | rh1an_thompson-russel | 2c9c2659872caedc216c518e416c4c3034b4b427af53d72d0cd1219c5fe2eae9 | r.thompson-russel@test-email.c
                                | e3d46414b27f4679c55a6799e0fe3271ae2a0fc2a2f0055c909e8d76f79971d8 | samar_shammas@test-email.com
       4 | samar_shammas
                                | 7a98d2ff346a648e0f548274c701c20aa2aee57cbe6da45d28b7e09e06fccbf5 | sara_dujmovic@test-email.com
       5 | sara_dujmovic
                                | 6815fac74d7906a4d7367c7df23cd61d3e081f63bf53d2fc4a3218cf57fd507a | n.le@test-ema1l.com
       6 | nguyen_le
                                | 26b3f34925a5052893c29dc56f1b7d5de222ff44f65d7f553ba47d9c2a79c640 | a.santos@test-ema1l.com
       7 | alex_santos
                                8 | y1_sun
                                | 1e7dd5d6fb805b23971b1629fe717c6f04300d3f6106b74c413a71784821f1df | hrodriguez@test-email.com
       9 | hazel rodriguez
      10 | melissa_anderson
                                 | 0a244f6c3081478dead94f4d1e13eec5fd083cedb6cf6afde7d524844884e6c1 | melissa.anderson@test-email.co
                                 | 1901a15662db83ab4b9e9448b83ace0f2ba02b34a090711525018f65d42b0d67 | pavel_polak@test-email.com
      11 | pavel_polak
11 rows in set (0.001 sec)
```

```
UPDATE budget_categories
SET budget_limit = 500 WHERE user_id = 2 AND category_name = "Travel";
```

```
DELETE FROM credit_card_statements WHERE amount < 10;</pre>
```

```
MariaDB [spendsmart]> delete from credit_card_statements where amount < 10;
Query OK, 2 rows affected (0.002 sec)
MariaDB [spendsmart]> select * from credit_card_statements
credit_card_statement_id | user_id | credit_card_number | institution
                                                                                        transaction date | merchant
                                                                                                                                    amount
                                                                                         2023-03-15
                                                                                                              Hotel Booking
                                                                JPMorgan Chase & Co. |
                                                                                                                                     200.75
                                     1 | ***********1234
1 | **********1234
                         32
                                                                JPMorgan Chase & Co.
                                                                                         2023-03-20
                                                                                                              Electronics Store
                                                                                                                                     95.30
                                                                JPMorgan Chase & Co.
                                                                                                                                     150.50
                                                                                         2023-03-25
                                                                                                              Car Rental
                                                                Bank of America
                                                                                          2023-03-15
                                                                                                              Home Decor Store
                                                                                                                                      75.40
                                                                Bank of America
                                                                                          2023-03-20
                                                                                                              Gas Station
                                                                                                                                      45.90
                                     2 | *********5678
                                                                Bank of America
                                                                                         2023-03-25
                                                                                                              Convenience Store
                                                                                                                                      20.25
                                     3 | *********4321
                                                                                         2023-04-01
                                                                Wells Fargo & Co.
                                                                                                              Coffee Shop
                                                                                                                                      10.50
                                                                Wells Fargo & Co.
                                                                                         2023-04-05
                                                                                                              Fitness Center
                                                                                                                                      30.75
                                     3 | ***********4321
4 | **********8765
                                                                Wells Fargo & Co.
                                                                                          2023-04-10
                                                                                                              G1ft Shop
                                                                                                                                      50.20
                                                                Citigroup Inc.
                                                                                          2023-04-15
                                                                                                              Grocery Store
                                                                                                                                      70.90
                                    4 | ************8765
4 | ***********8765
5 | ***********9876
                                                                                                              Movie Theater
                                                                Citigroup Inc.
                                                                                         2023-04-20
                                                                                                                                      25.75
                                                                                         2023-04-25
                                                                                                                                      15.40
                                                                Citigroup Inc.
                                                                                                              Pharmacy
                                                                                         2023-05-01
                                                                                                              Home Improvement
                                                                Citigroup Inc.
                                                                                                                                      85.60
                                    5 | **********9876
6 | **********3456
6 | ***********3456
7 | ***********543
8 | ***********7890
                                                                Citigroup Inc.
                                                                                          2023-05-05
                                                                                                              D1ner
                                                                                                                                      30.25
                                                                                                                                      60.75
                                                                Bank of America
                                                                                          2023-05-15
                                                                                                              Clothing Store
                                                                Bank of America
                                                                                         2023-05-20
                                                                                                              Bookstore
                                                                                                                                      40.90
                                                                JPMorgan Chase & Co.
                                                                                         2023-05-25
                                                                                                                                      35.30
                                                                                                              Pet Grooming
                                                                Bank of America
                                                                                         2023-06-01
                                                                                                              Furniture Store
                                                                                                                                     120,40
                         51
52
                                    8 | **********7890
8 | **********7890
                                                                Bank of America
                                                                                          2023-06-05
                                                                                                              Toy Store
                                                                                                                                      55.25
                                                                Bank of America
                                                                                          2023-06-10
                                                                                                              Automotive Store
                                                                                                                                      90.80
                                                                                                                                      80.90
                         53
                                                                                         2023-06-15
                                     9 | *********2109
                                                                Bank of America
                                                                                                              Music Store
                                         **********2109
                                                                Bank of America
                                                                                         2023-06-20
                                                                                                              Art Supplies Store
                                                                                                                                      25.50
                                    10 | ********5432
                                                                JPMorgan Chase & Co.
                                                                                                              Jewelry Shop
                                                                                         2023-06-25
                                                                                                                                     150.75
                                    10 | *********5432
                                                                JPMorgan Chase & Co.
                                                                                         2023-06-30
                                                                                                              Sporting Goods
                                                                                                                                      70.40
```

```
SELECT u.user_id, u.username, c.category_name AS travel_category, SUM(e.amount) AS total_travel_expense
FROM user AS u
INNER JOIN user_expenses AS e ON u.user_id = e.user_id
INNER JOIN budget_categories AS c ON e.category_id = c.budget_category_id
WHERE c.category_name LIKE 'Travel'
GROUP BY u.user_id, u.username, c.category_name
```

+	+	+	++
user_1d	username	travel_category	total_travel_expense
7	angela_marino alex_santos hazel_rodriguez	Travel Travel Travel	150.00 120.00 80.00

```
SELECT u.username, c.budget_limit, c.category_name, SUM(e.amount), c.budget_limit -
SUM(e.amount) AS total_health_expense_remaining
FROM user_expenses AS e
INNER JOIN user AS u ON u.user_id = e.user_id
INNER JOIN budget_categories AS c ON e.category_id = c.budget_category_id
WHERE u.username = 'rhian_thompson-russel' AND e.category_id = 16 AND
e.expense_date LIKE '2023-03%'
```

+	.			·
username	budget_limit	category_name	SUM(e.amount)	total_health_expense_remaining
rhian_thompson-russel	80.00	Health	55.00	25.00