SQL Assignment Report

SQL Queries:

1. Select username, email from user;
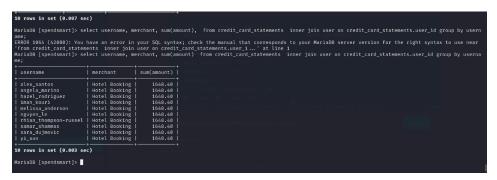
```
10 rows in set (0.005 sec)

MariaDB [spendsmart]> select username, email from user;
+-----------------------+--------------------------------+
| username              | email                          |
+-----------------------+--------------------------------+
| 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        |
| yi_sun                | yisun@test-email.com           |
| hazel_rodriguez       | hrodriguez@test-email.com      |
| melissa_anderson      | melissa.anderson@test-email.com |
+-----------------------+--------------------------------+
10 rows in set (0.006 sec)

MariaDB [spendsmart]>
```

2. Select merchant, amount, user from credit_card_statements inner join user on credit_card_statement.user_id;

```
MariaDB [spendsmart]> select merchant, amount, username from credit_card_statements  innerjoin user on credit_card_statements.user_id;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near
'user on credit_card_statements.user_id' at line 1
MariaDB [spendsmart]> select merchant, amount, username from credit_card_statements  inner join user on credit_card_statements.user_id;
+------------------+--------+-----------------------+
| merchant         | amount | username              |
+------------------+--------+-----------------------+
| Hotel Booking    | 200.75 | iman_kouri            |
| Hotel Booking    | 200.75 | angela_marino         |
| Hotel Booking    | 200.75 | rhian_thompson-russel |
| Hotel Booking    | 200.75 | samar_shammas         |
| Hotel Booking    | 200.75 | sara_dujmovic         |
| Hotel Booking    | 200.75 | nguyen_le             |
| Hotel Booking    | 200.75 | alex_santos           |
| Hotel Booking    | 200.75 | yi_sun                |
| Hotel Booking    | 200.75 | hazel_rodriguez       |
| Hotel Booking    | 200.75 | melissa_anderson      |
| Electronics Store |  95.30 | iman_kouri            |
| Electronics Store |  95.30 | angela_marino         |
| Electronics Store |  95.30 | rhian_thompson-russel |
| Electronics Store |  95.30 | samar_shammas         |
| Electronics Store |  95.30 | sara_dujmovic         |
| Electronics Store |  95.30 | nguyen_le             |
| Electronics Store |  95.30 | alex_santos           |
| Electronics Store |  95.30 | yi_sun                |
| Electronics Store |  95.30 | hazel_rodriguez       |
| Electronics Store |  95.30 | melissa_anderson      |
| Car Rental       | 150.50 | iman_kouri            |
| Car Rental       | 150.50 | angela_marino         |
| Car Rental       | 150.50 | rhian_thompson-russel |
| Car Rental       | 150.50 | samar_shammas         |
```

3.Select username, merchant, sum(amount) from credit_card_statements inner join user on credit_card_statement.user_idgroup by username;

```
10 rows in set (0.007 sec)

MariaDB [spendsmart]> select username, merchant, sum(amount),  from credit_card_statements  inner join user on credit_card_statements.user_id group by usern
ame;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near
'from credit_card_statements  inner join user on credit_card_statements.user_i ... ' at line 1
MariaDB [spendsmart]> select username, merchant, sum(amount)  from credit_card_statements  inner join user on credit_card_statements.user_id group by userna
me;
+-----------------------+---------------+------------+
| username              | merchant      | sum(amount) |
+-----------------------+---------------+------------+
| alex_santos           | Hotel Booking |    1648.40 |
| angela_marino         | Hotel Booking |    1648.40 |
| hazel_rodriguez       | Hotel Booking |    1648.40 |
| iman_kouri            | Hotel Booking |    1648.40 |
| melissa_anderson      | Hotel Booking |    1648.40 |
| nguyen_le             | Hotel Booking |    1648.40 |
| rhian_thompson-russel | Hotel Booking |    1648.40 |
| samar_shammas         | Hotel Booking |    1648.40 |
| sara_dujmovic         | Hotel Booking |    1648.40 |
| yi_sun                | Hotel Booking |    1648.40 |
+-----------------------+---------------+------------+
10 rows in set (0.003 sec)

MariaDB [spendsmart]>
```
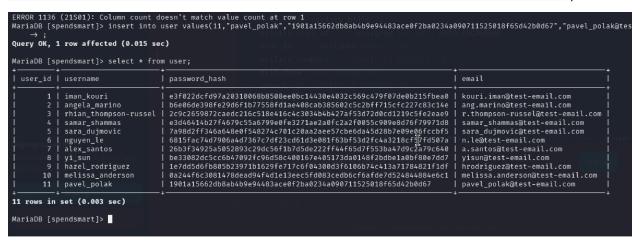
4.

Select utility_company, amount from utility_bills where amount > 50

```
MariaDB [spendsmart]> Select utility_company, amount  from utility_bills where amount > 50
    → ;
+------------------+--------+
| utility_company  | amount |
+------------------+--------+
| Gas Co.          |  55.50 |
| Electricity Co.  |  60.00 |
| Cable Co.        |  75.50 |
| Electricity Co.  |  65.75 |
| Cable Co.        |  70.25 |
| Gas Co.          |  50.60 |
| Electricity Co.  |  65.40 |
| Cable Co.        |  85.75 |
| Electricity Co.  |  60.75 |
+------------------+--------+
9 rows in set (0.001 sec)

MariaDB [spendsmart]>
```

5.

Insert into user values(11, "pavel_polak", "
1901a15662db83ab4b9e9448b83ace0f2ba02b34a090711525018f65d42b0d67")

```
ERROR 1136 (21S01): Column count doesn't match value count at row 1
MariaDB [spendsmart]> insert into user values(11,"pavel_polak","1901a15662db8ab4b9e94483ace0f2ba0234a090711525018f65d42b0d67","pavel_polak@tes
    → ;
Query OK, 1 row affected (0.015 sec)

MariaDB [spendsmart]> select * from user;
+---------+-----------------------+------------------------------------------------------------------+-----------------------------------+
| user_id | username              | password_hash                                                    | email                             |
+---------+-----------------------+------------------------------------------------------------------+-----------------------------------+
|       1 | iman_kouri            | e3f022dcfd97a20310068b8508ee0bc14430e4032c569c479f07de0b215fbea0 | kouri.iman@test-email.com         |
|       2 | angela_marino         | b6e06de398fe29d6f1b77558fd1ae408cab385602c5c2bff715cfc227c83c14e | ang.marino@test-email.com         |
|       3 | rhian_thompson-russel | 2c9c2659872caedc216c518e416c4c3034b4b427af53d72d0cd1219c5fe2eae9 | r.thompson-russel@test-email.com  |
|       4 | samar_shammas         | e3d46414b27f4679c55a6799e0fe3271ae2a0fc2a2f0055c909e8d76f79971d8 | samar_shammas@test-email.com      |
|       5 | sara_dujmovic         | 7a98d2ff346a648e0f548274c701c20aa2aee57cbe6da45d28b7e09e06fccbf5 | sara_dujmovic@test-email.com      |
|       6 | nguyen_le             | 6815fac74d7906a4d7367c7df23cd61d3e081f63bf53d2fc4a3218cf57fd507a | n.le@test-email.com               |
|       7 | alex_santos           | 26b3f34925a5052893c29dc56f1b7d5de222ff44f65d7f553ba47d9c2a79c640 | a.santos@test-email.com           |
|       8 | yi_sun                | be33082dc5cc6b47092fc96d58c400167e405173da0148f2bdbe1a0bf80e7dd7 | yisun@test-email.com              |
|       9 | hazel_rodriguez       | 1e7dd5d6fb805b23971b1629fe717c6f04300d3f6106b74c413a71784821f1df | hrodriguez@test-email.com         |
|      10 | melissa_anderson      | 0a244f6c3081478dead94f4d1e13eec5fd083cedb6cf6afde7d524844884e6c1 | melissa.anderson@test-email.com   |
|      11 | pavel_polak           | 1901a15662db8ab4b9e94483ace0f2ba0234a090711525018f65d42b0d67     | pavel_polak@test-email.com        |
+---------+-----------------------+------------------------------------------------------------------+-----------------------------------+
11 rows in set (0.003 sec)

MariaDB [spendsmart]>
```

6.

UPDATE budget_categories SET budget_limit = 500 WHERE budget category_id =13;

```
MariaDB [spendsmart]> UPDATE budget_categories SET budget_limit= 500 WHERE budget_category_id = 13;
Query OK, 1 row affected (0.011 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [spendsmart]> select * from budget_categories;
+--------------------+---------+----------------+--------------+
| budget_category_id | user_id | category_name  | budget_limit |
+--------------------+---------+----------------+--------------+
|                 11 |       1 | Dining Out     |       150.00 |
|                 12 |       1 | Utilities      |       100.00 |
|                 13 |       2 | Travel         |       500.00 |
|                 14 |       2 | Hobbies        |        50.00 |
|                 15 |       2 | Gifts          |        75.00 |
|                 16 |       3 | Health         |        80.00 |
|                 17 |       3 | Beauty         |        30.00 |
|                 18 |       4 | Office Supplies|        50.00 |
|                 19 |       4 | Music          |       120.00 |
|                 20 |       4 | Outdoor Gear   |        90.00 |
|                 21 |       5 | Movies         |        40.00 |
|                 22 |       5 | Fitness        |        60.00 |
|                 23 |       6 | Gardening      |        30.00 |
|                 24 |       6 | Stationery     |        40.00 |
|                 25 |       7 | Travel         |       150.00 |
|                 26 |       7 | Home Decor     |       100.00 |
|                 27 |       8 | Pets           |        70.00 |
|                 28 |       8 | Movies         |        80.00 |
|                 29 |       8 | Tools          |        50.00 |
```

7.

Select from credit_card_statements where amount < 10;

```
MariaDB [spendsmart]> select * from credit_card_statement;
ERROR 1146 (42S02): Table 'spendsmart.credit_card_statement' doesn't exist
MariaDB [spendsmart]> select * from credit_card_statements;
+-------------------------+---------+--------------------+----------------------+------------------+-------------------+--------+
| credit_card_statement_id| user_id | credit_card_number | institution          | transaction_date | merchant          | amount |
+-------------------------+---------+--------------------+----------------------+------------------+-------------------+--------+
|                      31 |       1 | ************1234   | JPMorgan Chase & Co. | 2023-03-15       | Hotel Booking     | 200.75 |
|                      32 |       1 | ************1234   | JPMorgan Chase & Co. | 2023-03-20       | Electronics Store |  95.30 |
|                      33 |       1 | ************1234   | JPMorgan Chase & Co. | 2023-03-25       | Car Rental        | 150.50 |
|                      34 |       2 | ************5678   | Bank of America      | 2023-03-15       | Home Decor Store  |  75.40 |
|                      35 |       2 | ************5678   | Bank of America      | 2023-03-20       | Gas Station       |  45.90 |
|                      36 |       2 | ************5678   | Bank of America      | 2023-03-25       | Convenience Store |  20.25 |
|                      37 |       3 | ************4321   | Wells Fargo & Co.    | 2023-04-01       | Coffee Shop       |  10.50 |
|                      38 |       3 | ************4321   | Wells Fargo & Co.    | 2023-04-05       | Fitness Center    |  30.75 |
|                      39 |       3 | ************4321   | Wells Fargo & Co.    | 2023-04-10       | Gift Shop         |  50.20 |
|                      40 |       4 | ************8765   | Citigroup Inc.       | 2023-04-15       | Grocery Store     |  70.90 |
|                      41 |       4 | ************8765   | Citigroup Inc.       | 2023-04-20       | Movie Theater     |  25.75 |
|                      42 |       4 | ************8765   | Citigroup Inc.       | 2023-04-25       | Pharmacy          |  15.40 |
|                      43 |       5 | ************9876   | Citigroup Inc.       | 2023-05-01       | Home Improvement  |  85.60 |
|                      44 |       5 | ************9876   | Citigroup Inc.       | 2023-05-05       | Diner             |  30.25 |
|                      45 |       6 | ************3456   | Bank of America      | 2023-05-10       | Bakery            |   6.75 |
|                      46 |       6 | ************3456   | Bank of America      | 2023-05-15       | Clothing Store    |  60.75 |
|                      47 |       6 | ************3456   | Bank of America      | 2023-05-20       | Bookstore         |  40.90 |
|                      48 |       7 | ************6543   | JPMorgan Chase & Co. | 2023-05-25       | Pet Grooming      |  35.30 |
|                      49 |       7 | ************6543   | JPMorgan Chase & Co. | 2023-05-30       | Ice Cream Shop    |   3.25 |
|                      50 |       8 | ************7890   | Bank of America      | 2023-06-01       | Furniture Store   | 120.40 |
|                      51 |       8 | ************7890   | Bank of America      | 2023-06-05       | Toy Store         |  55.25 |
|                      52 |       8 | ************7890   | Bank of America      | 2023-06-10       | Automotive Store  |  90.80 |
|                      53 |       9 | ************2109   | Bank of America      | 2023-06-15       | Music Store       |  80.90 |
|                      54 |       9 | ************2109   | Bank of America      | 2023-06-20       | Art Supplies Store|  25.50 |
|                      55 |      10 | ************5432   | JPMorgan Chase & Co. | 2023-06-25       | Jewelry Shop      | 150.75 |
|                      56 |      10 | ************5432   | JPMorgan Chase & Co. | 2023-06-30       | Sporting Goods    |  70.40 |
+-------------------------+---------+--------------------+----------------------+------------------+-------------------+--------+
26 rows in set (0.007 sec)

MariaDB [spendsmart]> delete from credit_card_statements where amount< 10;
```

8.

Select user.username, budget_categories.category_name, sum(user_expense.amount)
from user join budget_categories on user.user_id = budget_categories.user_id join

user_expenses on user.user_id = user_expense.user_id where category_name = 'Travel' group by username;

```
MariaDB [spendsmart]> select user.username, budget_categories.category_name, sum(use
r_expenses.amount) from user join budget_categories on user.user_id = budget_categor
ies.user_id join user_expenses on user.user_id = user_expenses.user_id where categor
y_name = 'Travel' group by username;
+------------------+---------------+---------------------------+
| username         | category_name | sum(user_expenses.amount) |
+------------------+---------------+---------------------------+
| alex_santos      | Travel        |                    180.00 |
| angela_marino    | Travel        |                    220.00 |
| hazel_rodriguez  | Travel        |                    105.00 |
+------------------+---------------+---------------------------+
3 rows in set (0.009 sec)

MariaDB [spendsmart]> 
```

9.

[SQL Query Here]

[Screenshot of Output Here]