SQL-TASK 3: LIBRARY DATABASE

1. DATABASE (Base)

```
INSERT customer_report (book_id,title,author,borrowed_date)VALUES

(1,'The Great Catsby','Mr Meowington II','2024-01-04'),(2,'The Great Catsby','Mr Meowington II','2024-01-05'),

(3,'Metamorphosis','Prancisze Kafka','2024-01-06'),(4,'The History of the Dwarfs','Shahim Danish A/L Azizul Sabri','2024-01-07'),

(5,'Biology Form 4','Arif Alodeng','2024-01-08'),(6,'Chef Cuisine','Amna Ibrahim','2024-02-22')
```

Entering this code into the Query will result with:

#	book_id 💡	title	author	borrowed_date
1 2 3 4 5	1	Bible Volume 1 Edition 1	Jesus	2024-01-04
	2	The Great Catsby	Mr Meowington II	2024-01-05
	3	Metamorphosis	Prancisze Kafka	2024-01-06
	4	The History of the Dwarfs	Shahim Danish A/L Azizul Sabri	2024-01-07
	5	Biology Form 4	Arif Alodeng	2024-01-08
6	6	Chef Cuisine	Amna Ibrahim	2024-02-22

Table of Books with book_id, title, author, borrowed_date

2. Find from Specific Author

Example: Amna Ibrahim can be found from entering this code into Query:

```
1 SELECT *
2 FROM customer_report
3 WHERE author = 'Amna Ibrahim';
4
```

Resulting in:



2. Find from Specific Date

Example: Book borrowed on 2024-01-05 can be found from entering this code into Query:

```
1 SELECT *
2 FROM customer_report
3 WHERE borrowed_date = '2024-01-05';
4
```

Resulting in:

```
SELECT *
FROM customer_report
WHERE borrowed_date = '2024-01-05|';

customer_report (1r × 4c)

book_id title author borrowed_date

1 2 The Great Catsby Mr Meowington II 2024-01-05
```

2. Find after Specific Date

Example: Book borrowed after 2024-01-06 can be found from entering this code into Query:

```
1 SELECT *
2 FROM customer_report
3 WHERE borrowed_date > '2024-01-06';
4
```

Resulting in:

```
SELECT *
     FROM customer_report
 3
     WHERE borrowed_date > '2024-01-06';
 4
customer_report (3r × 4c)
         book_id 💡 title
                                                 author
                                                                               borrowed_date
      1
                    4 The History of the Dwarfs
                                                 Shahim Danish A/L Azizul Sabri
                                                                                2024-01-07
      2
                    5 Biology Form 4
                                                 Arif Alodeng
                                                                                2024-01-08
       3
                    6 Chef Cuisine
                                                 Amna Ibrahim
                                                                                2024-02-22
```

Seeing all these books, how can we find the total books, or all of the books?

3. Find all books

Entering this code into Query:

```
1 SELECT *
2 FROM customer_report
```

Resulting in:

```
SELECT *
       FROM customer_report
  2
customer_report (6r × 4c)
           book_id
                                                     author
                                                                                     borrowed_date
        1
                       1 Bible Volume 1 Edition 1
                                                      Jesus
                                                                                      2024-01-04
        2
                       2 The Great Catsby
                                                      Mr Meowington II
                                                                                      2024-01-05
        3
                       3 Metamorphosis
                                                      Prancisze Kafka
                                                                                      2024-01-06
                       4 The History of the Dwarfs
                                                      Shahim Danish A/L Azizul Sabri
                                                                                      2024-01-07
        5
                       5 Biology Form 4
                                                      Arif Alodeng
                                                                                      2024-01-08
        6
                          Chef Cuisine
                                                      Amna Ibrahim
                                                                                      2024-02-22
```

4. Update borrowed date

Entering this code into Query:

```
1   UPDATE customer_report
2   SET borrowed_date = '2024-01-23'
3   WHERE book_id = 2;
```

Resulting in:



The Great Catsby from 2024-01-05 \rightarrow 2024-01-23

5. Deleting books

Entering this code into Query:

```
1 DELETE FROM customer_report
2 WHERE book_id = 5;
```

Resulting in:

#	book 무 🗚	title	author	borrowed_date
1	1	Bible Volume 1 Edition 1	Jesus	2024-01-04
2	2	The Great Catsby	Mr Meowington II	2024-01-23
3	3	Metamorphosis	Prancisze Kafka	2024-01-06
4	4	The History of the Dwarfs	Shahim Danish A/L Azizul Sabri	2024-01-07
5	6	Chef Cuisine	Amna Ibrahim	2024-02-22

(Biology Form 4, Arif Alodeng removed)

6. Adding back deleted books Entering this code into Query:

```
1 INSERT INTO customer_report (book_id, title, author, borrowed_date)
2 VALUES (5, 'biology Form 4', 'Arif Alodeng', '2024-01-08');
3
```

Resulting in:

#	book 💡 🛕	title	author	borrowed_date
1 2	1	Bible Volume 1 Edition 1	Jesus	2024-01-04
	2	The Great Catsby	Mr Meowington II	2024-01-23
3	3	Metamorphosis	Prancisze Kafka	2024-01-06
4 5 6	4	The History of the Dwarfs	Shahim Danish A/L Azizul Sabri	2024-01-07
	5	biology Form 4	Arif Alodeng	2024-01-08
	6	Chef Cuisine	Amna Ibrahim	2024-02-22

(Biology Form 4, Arif Alodeng added back)