LEMBAR KERJA PRAKTIKUM
BASIS DATA

NAMA	FERZA REYALDI	TANGGAL	
NIM	09021281924060	WAKTU	1 SKS (120 MENIT)
KELAS	3 TI REGULER A	PERTEMUAN	

FUNGSI AGREGAT

- ### COUNT

```
MariaDB [fashion-store]> SELECT gender, COUNT(gender)
    -> FROM users
    -> GROUP BY gender;
+--------+---------------+
| gender | COUNT(gender) |
+--------+---------------+
|      0 |           126 |
|      1 |           199 |
+--------+---------------+
2 rows in set (0.001 sec)
```

- ### SUM

```
MariaDB [fashion-store]> SELECT SUM(price) AS "Total Harga Produk"
    -> FROM items;
+--------------------+
| Total Harga Produk |
+--------------------+
|               1584 |
+--------------------+
1 row in set (0.001 sec)
```

- ### AVG

```
MariaDB [fashion-store]> SELECT AVG(price) AS "Rata-rata Harga Produk"
    -> FROM items;
+------------------------+
| Rata-rata Harga Produk |
+------------------------+
|                52.8000 |
+------------------------+
1 row in set (1.677 sec)
```

- ### MAX

```
MariaDB [fashion-store]> SELECT MAX(price) AS "Harga Tertinggi"
    -> FROM items;
+-----------------+
| Harga Tertinggi |
+-----------------+
|             320 |
+-----------------+
1 row in set (0.001 sec)
```

- ### MIN

```
MariaDB [fashion-store]> SELECT MIN(price) AS "Harga Terendah"
    -> FROM items;
+----------------+
| Harga Terendah |
+----------------+
|             10 |
+----------------+
1 row in set (0.001 sec)
```
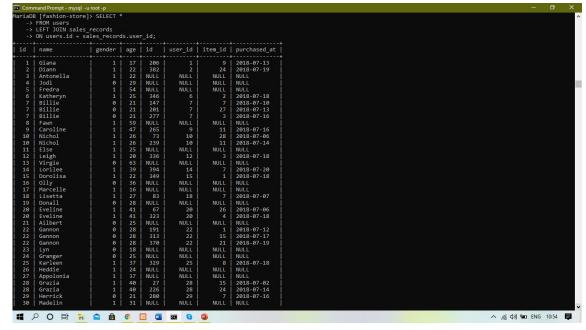
JOIN

```
MariaDB [fashion-store]> SELECT users.name, SUM(price) AS "Total Pengeluaran"
    -> FROM users
    -> JOIN sales_records
    -> ON sales_records.user_id = users.id
    -> LEFT JOIN items
    -> ON items.id = sales_records.item_id
    -> GROUP BY users.name;
+-----------------+-------------------+
| name            | Total Pengeluaran |
+-----------------+-------------------+
| Addi            |                75 |
| Adrianna        |                54 |
| Adrienne        |                92 |
| Annabel         |                80 |
| Anne-marie      |               139 |
| Ardenia         |                78 |
| Ariella         |                15 |
| Armand          |                97 |
| Arny            |                30 |
| Austina         |               320 |
| Ax              |                45 |
| Beck            |                32 |
| Belia           |                50 |
| Benyamin        |                30 |
| Bert            |               182 |
| Billie          |               132 |
| Bogart          |               180 |
| Brandais        |               103 |
| Brena           |               110 |
| Brina           |                90 |
| Brit            |                58 |
| Bryana          |                95 |
| Buck            |                30 |
| Burch           |               782 |
| Cale            |               112 |
| Carina          |               100 |
| Carlyn          |                34 |
| Carole          |                30 |
| Caroline        |                20 |
| Celestina       |                42 |
| Chandra         |                34 |
| Charlene        |                60 |
| Chelsy          |                58 |
```

- **LEFT JOIN**

- **RIGHT JOIN**

```
MariaDB [fashion-store]> SELECT *
    -> FROM users
    -> RIGHT JOIN sales_records
    -> ON users.id = sales_records.user_id;
+------+-----------+--------+------+------+---------+---------+--------------+
| id   | name      | gender | age  | id   | user_id | item_id | purchased_at |
+------+-----------+--------+------+------+---------+---------+--------------+
|  204 | Lindi     |      1 |   33 |    1 |     204 |      28 | 2018-07-01   |
|   99 | Isaac     |      0 |   25 |    2 |      99 |       8 | 2018-07-01   |
|   97 | Karlie    |      1 |   15 |    3 |      97 |      17 | 2018-07-01   |
|  223 | Brina     |      1 |   31 |    4 |     223 |      22 | 2018-07-01   |
|  130 | Marcelia  |      1 |   23 |    5 |     130 |      19 | 2018-07-01   |
|  259 | Florrie   |      1 |   30 |    6 |     259 |      12 | 2018-07-01   |
|  266 | Celestina |      1 |   51 |    7 |     266 |      15 | 2018-07-01   |
|   91 | Lindon    |      0 |   19 |    8 |      91 |      29 | 2018-07-01   |
|  166 | Frederico |      0 |   30 |    9 |     166 |       9 | 2018-07-01   |
|  271 | Merwyn    |      0 |   41 |   10 |     271 |       9 | 2018-07-01   |
|  159 | Linnea    |      1 |   33 |   11 |     159 |       3 | 2018-07-01   |
|  120 | Oren      |      0 |   24 |   12 |     120 |      17 | 2018-07-01   |
|  143 | Omar      |      0 |   13 |   13 |     143 |      17 | 2018-07-01   |
|  162 | Sam       |      0 |   25 |   14 |     162 |      15 | 2018-07-01   |
|  206 | Ax        |      0 |   25 |   15 |     206 |      24 | 2018-07-01   |
|  186 | Frank     |      1 |   19 |   16 |     186 |      15 | 2018-07-01   |
|   38 | Carina    |      1 |   27 |   17 |      38 |       3 | 2018-07-02   |
|  213 | Lorry     |      1 |   30 |   18 |     213 |      15 | 2018-07-02   |
|  302 | Gearard   |      0 |   22 |   19 |     302 |      30 | 2018-07-02   |
|  259 | Florrie   |      1 |   30 |   20 |     259 |       3 | 2018-07-02   |
|   56 | Marlene   |      1 |   30 |   21 |      56 |      23 | 2018-07-02   |
|   94 | Kerianne  |      1 |   27 |   22 |      94 |      17 | 2018-07-02   |
|   64 | Ariella   |      1 |   23 |   23 |      64 |       4 | 2018-07-02   |
|  176 | Torr      |      0 |   23 |   24 |     176 |       8 | 2018-07-02   |
|  206 | Ax        |      0 |   25 |   25 |     206 |       4 | 2018-07-02   |
|  250 | Austina   |      1 |   29 |   26 |     250 |      23 | 2018-07-02   |
|   28 | Grazia    |      1 |   40 |   27 |      28 |      15 | 2018-07-02   |
|  198 | Kriste    |      1 |   25 |   28 |     198 |      15 | 2018-07-02   |
|  124 | Dulci     |      1 |   24 |   29 |     124 |      12 | 2018-07-02   |
|  176 | Torr      |      0 |   23 |   30 |     176 |      10 | 2018-07-03   |
|   94 | Kerianne  |      1 |   27 |   31 |      94 |      25 | 2018-07-03   |
|  308 | Cherida   |      1 |   42 |   32 |     308 |      30 | 2018-07-03   |
|  133 | Merle     |      1 |   24 |   33 |     133 |      11 | 2018-07-03   |
|  124 | Dulci     |      1 |   24 |   34 |     124 |       3 | 2018-07-03   |
|  239 | Saidee    |      1 |   19 |   35 |     239 |      16 | 2018-07-03   |
|  259 | Florrie   |      1 |   30 |   36 |     259 |      10 | 2018-07-03   |
```

- **INNER JOIN**