

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

```

C:\Command Prompt - mysql -u root -p
MariaDB [fashion-store]> SELECT *
-> FROM users
-> LEFT JOIN sales_records
-> ON users.id = sales_records.user_id;

```

	id	name	gender	age	id	user_id	item_id	purchased_at
1	Giana	1	17	206	1	9	2018-07-13	
2	Diann	1	22	382	2	24	2018-07-19	
3	Antonella	1	22	NULL	NULL	NULL	NULL	
4	Jodi	0	29	NULL	NULL	NULL	NULL	
5	Fredra	1	54	NULL	NULL	NULL	NULL	
6	Katheryn	1	25	346	6	2	2018-07-18	
7	Billie	0	21	147	7	7	2018-07-10	
7	Billie	0	21	201	7	27	2018-07-13	
7	Billie	0	21	277	7	3	2018-07-16	
8	Fawn	1	59	NULL	NULL	NULL	NULL	
9	Caroline	1	47	265	9	11	2018-07-16	
10	Nichol	1	26	73	10	28	2018-07-06	
10	Nichol	1	26	239	10	11	2018-07-14	
11	Else	1	25	NULL	NULL	NULL	NULL	
12	Leigh	1	20	336	12	3	2018-07-18	
13	Virgie	0	63	NULL	NULL	NULL	NULL	
14	Lorilee	1	39	394	14	7	2018-07-20	
15	Dorolisa	1	22	349	15	1	2018-07-18	
16	Oily	0	36	NULL	NULL	NULL	NULL	
17	Marcelle	1	16	NULL	NULL	NULL	NULL	
18	Lisetta	1	27	83	18	7	2018-07-07	
19	Donall	0	28	NULL	NULL	NULL	NULL	
20	Eveline	1	41	67	20	26	2018-07-06	
20	Eveline	1	41	323	20	4	2018-07-18	
21	Ailbert	0	25	NULL	NULL	NULL	NULL	
22	Gannon	0	28	191	22	1	2018-07-12	
22	Gannon	0	28	313	22	15	2018-07-17	
22	Gannon	0	28	370	22	21	2018-07-19	
23	Lyn	0	18	NULL	NULL	NULL	NULL	
24	Granger	0	25	NULL	NULL	NULL	NULL	
25	Karleen	1	37	329	25	8	2018-07-18	
26	Heddie	1	24	NULL	NULL	NULL	NULL	
27	Appolonia	1	37	NULL	NULL	NULL	NULL	
28	Grazia	1	40	27	28	15	2018-07-02	
28	Grazia	1	40	226	28	24	2018-07-14	
29	Herrick	0	21	280	29	7	2018-07-16	
30	Madelin	1	31	NULL	NULL	NULL	NULL	

- RIGHT JOIN

Command Prompt - mysql -u root -p

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	Marcellia	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
	190	Kriste	1	25	28	190	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