

Super market Management System

The objective of the “**Supermarket Management System** “is to produce software which manages the sales activity done in a supermarket, maintaining the stock details, maintaining the records of the sales done for a particular month/year. The users will consume less time in calculation and the sales activity will be completed within a fraction of seconds whereas manual system will make the user to write it down which is a long procedure and it also consumes a lot of time.

The data will be stored in the database. Because of this software, paper work will be reduced and the user can spend more time on the monitoring the supermarket. The project will be user friendly and easy to use.

Structure of a Table

Customer: This table contains the detail of customer,such as customer_id,name,email,phone_no,zipcode,amount,car_t_it:

```
MariaDB [sqlminiproject]> desc customer;
```

Field	Type	Null	Key	Default	Extra
customer_id	int(4)	NO	PRI	NULL	
name	varchar(255)	NO		NULL	
email	varchar(255)	NO		NULL	
phone_no	bigint(10)	NO		NULL	
zipcode	int(6)	NO		NULL	
amount	bigint(20)	YES		NULL	
car_t_it	int(11)	YES	MUL	NULL	

7 rows in set (0.018 sec)

Address : This table contains the details of address such as zipcode,state,district,cit,customer_id.

```
MariaDB [sqlminiproject]> desc address;
```

Field	Type	Null	Key	Default	Extra
zipcode	int(6)	NO	PRI	NULL	
state	varchar(255)	NO		NULL	
district	varchar(255)	NO		NULL	
city	varchar(255)	NO		NULL	
customer_id	int(11)	YES		NULL	

Billing_counter : This table contains the details of bill.

```
MariaDB [sqlminiproject]> desc billing_counter;
```

Field	Type	Null	Key	Default	Extra
bill_no	int(9)	NO		NULL	
customer_id	int(4)	NO	PRI	NULL	
employee_id	int(3)	NO		NULL	
bdate	datetime	NO		current_timestamp()	
type	varchar(20)	YES		NULL	

5 rows in set (0.027 sec)

Cart:

```
MariaDB [sqlminiproject]> desc cart;
```

Field	Type	Null	Key	Default	Extra
cart_id	int(4)	NO	PRI	NULL	
model_id	int(5)	NO		NULL	
quantity	int(3)	NO		NULL	
amount	int(8)	NO		NULL	
bill_no	int(9)	NO		NULL	

5 rows in set (0.030 sec)

Product :

```
MariaDB [sqlminiproject]> desc product;
```

Field	Type	Null	Key	Default	Extra
prod_id	int(11)	NO	PRI	NULL	
prod_name	varchar(20)	YES		NULL	
cust_id	int(11)	YES	MUL	NULL	

3 rows in set (0.013 sec)

Content of a Tables:

Customer:

```
MariaDB [sqlminiproject]> select * from customer;
```

customer_id	name	email	phone_no	zipcode	amount	cart_it
26	hammad	hmmed@gmail.com	85239874310	501232	202	89
126	halima	halima@gmail.com	85239874311	501232	2500	125
1001	rahul	vijay@gmail.com	9222587410	542157	240	118
1012	tasu	btu@gmail.com	8945231470	504128	200	87
1101	Vijay	vijay@gmail.com	9222587410	542157	190	69
1111	Vinayak S P	vinay@gmail.com	9632587410	562157	111	10
1114	tasu	bet@gmail.com	8905231470	55128	50	55
1144	Vijay	vijay@gmail.com	9442587410	560057	111150	48
2000	Sdaa	sdan@gmail.com	6544368956	583301	180	68
2007	Bhavan	bhavan@gmail.com	8556326989	562057	220	98
2012	Ban	ban@gmail.com	8551326989	562157	2600	126
2127	Bhavan	bhavan@gmail.com	852256989	562147	170	67
2200	sameer	sameer@gmail.com	2568956	987001	230	99
2220	sameer1	sameer@gmail.com	2568956	981001	255550	127
2227	Bhuvan	bhuvan@gmail.com	8563256989	562157	130	47
2229	Sachin Koppad	sachin@gmail.com	6532568956	587101	140	NULL
2296	hammadd	hammed@gmail.com	8521987410	501242	160	56

17 rows in set (0.009 sec)

Address:

```
MariaDB [sqlminiproject]> select * from address;
```

zipcode	state	district	city	customer_id
41320	MAHARASTRA	Ahmad Nagar	kokan	1
413207	MAHARASTRA	Beed	old atini	2
423701	MAHARASTRA	Aurangabad	Old aurangabad	3
424001	MAHARASTRA	dhule	rasayani	4
424433	MAHARASTRA	jalna	jalwa	5
434233	MAHARASTRA	kalyan	oldKalyan	NULL
441205	MAHARASTRA	Chandrapur	kalwa	6
441207	MAHARASTRA	Gadchiroli	vasi	7
441601	MAHARASTRA	Gondia	old gondia	NULL
441802	MAHARASTRA	Bhandara	old bhandara	NULL
442302	MAHARASTRA	Amravati	mumbai	NULL
443001	MAHARASTRA	Buldhana	mulund	NULL
444001	MAHARASTRA	Akola	thane	2
561563	MAHARASTRA	bhiwandi	oldbhiwandi	NULL
645316	MAHARASTRA	fhule	pen	NULL
734676	MAHARASTRA	taloja	oldtaloja	NULL
736633	MAHARASTRA	panvel	oldpanvel	NULL
737633	MAHARASTRA	amber	vasai	NULL
767678	MAHARASTRA	malang	old malang	NULL
4311114	MAHARASTRA	Hongoli	malad	NULL

```
20 rows in set (0.078 sec)
```

Billing_Counter:

```
MariaDB [sqlminiproject]> select * from billing_counter;
```

bill_no	customer_id	employee_id	bdate	type
999	1	111	2020-01-23 23:53:34	NULL
991	2	111	2012-10-24 11:43:07	NULL
992	3	111	2020-11-24 14:49:20	NULL
993	4	111	2020-11-24 16:06:14	NULL
994	5	111	2020-11-29 00:05:18	NULL
995	6	111	2020-11-29 00:22:49	NULL
1000	7	111	2020-01-23 23:53:34	NULL
101	1014	111	2023-02-05 06:50:55	peanut butter
70	1111	111	2023-02-05 06:50:55	rice
72	1112	111	2023-02-05 06:50:55	zeera
73	1114	111	2023-02-05 06:50:55	guava
101	2002	111	2023-02-05 06:50:55	peanut butter
105	2026	111	2023-02-05 06:50:55	peanut butter + bana
107	2029	111	2023-02-05 06:50:55	toilet cleaner
71	2222	111	2023-02-05 06:50:55	apple
79	2226	111	2023-02-05 06:50:55	wheat
74	2326	111	2023-02-05 06:50:55	NULL
75	2327	111	2023-02-05 06:50:55	toast
109	7772	111	2023-02-05 06:50:55	dairy milk
108	8881	111	2023-02-05 06:50:55	toothpaste

20 rows in set (0.023 sec)

Cart:

```
MariaDB [sqlminiproject]> select * from cart;
```

cart_id	model_id	quantity	amount	bill_no
10	12311	2	80	90
41	12132	2	110	74
44	12111	1	90	70
47	12111	1	90	72
48	12122	2	100	72
55	12122	5	600	90
56	13111	2	210	74
67	12511	2	70	62
68	12111	2	100	80
69	12122	5	500	80
87	12122	1	40	69
89	12111	6	444	74
98	12111	2	200	40
99	12222	3	333	108
118	12111	5	1140	115
119	12111	5	1240	105
125	12111	2	456	120
126	12122	1	50	120
127	12111	2	455	20
129	12122	1	20	10

```
20 rows in set (0.483 sec)
```

Product:

```
MariaDB [sqlminiproject]> select * from product;
```

prod_id	prod_name	cust_id
1	waquar	1014
2	rice	1111
3	kethep	1112
4	biscuit	1114
5	namkeen	2002
6	egg	2026
7	rice	2029
8	brown rice	2222
9	cookies	2226
10	bhujia	2326
11	pediasure	2327
12	cake	1
13	brown_cake	2
14	aata	3
15	maida	4
16	maggie	5
17	cold drink	6
18	aloo bhujia	7

```
18 rows in set (0.001 sec)
```

SUBQUERY:

1.Show All the details of customer with Customer table whoes amount >750;

```
MariaDB [sqlminiproject]> select * from customer where amount IN(select amount from customer where amount>750);
```

customer_id	name	email	phone_no	zipcode	amount
1144	Vijay	vijay@gmail.com	9442587410	560057	111150
126	halima	halima@gmail.com	85239874311	501232	2500
2012	Ban	ban@gmail.com	8551326989	562157	2600
2220	sameer1	sameer@gmail.com	2568956	981001	255550

```
4 rows in set (0.001 sec)
```

2.Display detail from cart table those who purchase more quantity of product;

```
MariaDB [sqlminiproject]> select * from cart where quantity=(select max(quantity) from cart);
```

cart_id	model_id	quantity	amount	bill_no
89	12111	6	444	74

```
1 row in set (0.001 sec)
```

3.Display the detail of customer where city is kokan or old Aurangabad;

```
MariaDB [sqlminiproject]> select * from address where city IN(select city from address where city='kokan' or city='old aurangabad');
```

zipcode	state	district	city
41320	MAHARASTRA	Ahmad Nagar	kokan
423701	MAHARASTRA	Aurangabad	Old aurangabad

```
2 rows in set (0.001 sec)
```

4.Display details from billing_counter where product type is peanut butter;


```
MariaDB [sqlminiproject]> select * from billing_counter where type IN(select type from billing_counter where type='peanut butter');
```

bill_no	customer_id	employee_id	bdate	type
101	1014	111	2023-02-05 06:50:55	peanut butter
101	2002	111	2023-02-05 06:50:55	peanut butter

```
2 rows in set (0.001 sec)
```

VIEW:

1.create a view table for cart and customer;

```
create view v_cart_customer1 as select cart.cart_id, cart.quantity, cart.amount, customer.customer_id, customer.name, customer.zipcode from cart, customer where cart_id in(10,41) and customer_id in(1111,1112);
```

Query OK, 0 rows affected (0.003 sec)

```
MariaDB [sqlminiproject]> create view v_cart_customer1 as select cart.cart_id, cart.quantity, cart.amount, customer.customer_id, customer.name, customer.zipcode from cart, customer where cart_id in(10,41) and customer_id in(1111,1112);
Query OK, 0 rows affected (0.003 sec)

MariaDB [sqlminiproject]> select * from v_cart_customer1;
+-----+-----+-----+-----+-----+
| cart_id | quantity | amount | customer_id | name | zipcode |
+-----+-----+-----+-----+-----+
| 10 | 2 | 80 | 1111 | Vinayak S P | 562157 |
| 41 | 2 | 110 | 1111 | Vinayak S P | 562157 |
+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

2.create view table for address(single table view):

```
create view v_address as select * from address where zipcode in(41320,413207);
```

Query OK, 0 rows affected (0.005 sec)

```
MariaDB [sqlminiproject]> create view v_address as select * from address where zipcode in(41320,413207);
Query OK, 0 rows affected (0.005 sec)

MariaDB [sqlminiproject]> select * from v_address;
+-----+-----+-----+-----+-----+
| zipcode | state | district | city | customer_id |
+-----+-----+-----+-----+-----+
| 41320 | MAHARASTRA | Ahmad Nagar | kokan | 1 |
| 413207 | MAHARASTRA | Beed | old atini | 2 |
+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

3. MariaDB [sqlminiproject]> create view v_cart_prod2 as select cart.cart_id ,cart.quantity,cart.amount from cart union select product.cust_id,product.prod_id,product.prod_name from product where prod_name IS NULL;

Query OK, 0 rows affected (0.005 sec)

MariaDB [sqlminiproject]> select * from v_cart_prod2;

```
MariaDB [sqlminiproject]> create view v_cart_prod2 as select cart.cart_id ,cart.quantity,cart.amount from cart union select product.cust_id,product.prod_id,product.prod_name from product where prod_name IS NULL;
Query OK, 0 rows affected (0.005 sec)

MariaDB [sqlminiproject]> select * from v_cart_prod2;
+-----+-----+-----+
| cart_id | quantity | amount |
+-----+-----+-----+
| 10 | 2 | 80 |
| 41 | 2 | 110 |
| 44 | 1 | 90 |
| 47 | 1 | 90 |
| 48 | 2 | 100 |
| 55 | 5 | 600 |
| 56 | 2 | 210 |
| 67 | 2 | 70 |
| 68 | 2 | 100 |
| 69 | 5 | 500 |
| 87 | 1 | 40 |
| 89 | 6 | 444 |
| 98 | 2 | 200 |
| 99 | 3 | 333 |
| 118 | 5 | 1140 |
| 119 | 5 | 1240 |
| 125 | 2 | 456 |
| 126 | 1 | 50 |
| 127 | 2 | 455 |
| 129 | 1 | 20 |
+-----+-----+-----+
20 rows in set (0.001 sec)
```

JOINS

1.Perform inner-join of two table from customer and cart to show the customer_id, name,email, and from cart table I take quantity and amount;

Select customer.customer_id,customer.name,customer.email,card.quantity,card.amount from customer inner join card on customer.customer_id=card.card_id;

```
MariaDB [sqlminiproject]> select customer.customer_id,customer.name,customer.email,card.quantity,card.amount from customer inner join card on customer.customer_id=card.card_id;
```

customer_id	name	email	quantity	amount
126	halima	halima@gmail.com	1	50

```
1 row in set (0.001 sec)
```

2.Display detail of customer by performing left on customer and card:

```
MariaDB [sqlminiproject]> select card.card_id,card.quantity,card.amount,card.model_id,billing_counter.bill_no,billing_counter.bdate,billing_counter.type from card left join billing_counter on billing_counter.bill_no = card.model_id where quantity = 2;
```

card_id	quantity	amount	model_id	bill_no	bdate	type
10	2	80	12311	NULL	NULL	NULL
41	2	110	12132	NULL	NULL	NULL
48	2	100	12122	NULL	NULL	NULL
56	2	210	13111	NULL	NULL	NULL
67	2	70	12511	NULL	NULL	NULL
68	2	100	12111	NULL	NULL	NULL
98	2	200	12111	NULL	NULL	NULL
125	2	456	12111	NULL	NULL	NULL
127	2	455	12111	NULL	NULL	NULL

```
9 rows in set (0.001 sec)
```

3.perform self join in customer table :

```
MariaDB [sqlminiproject]> select A.name as name1,B.name as name2,A.email,A.amount from customer A,customer B where A.customer_id=B.customer_id order by A.amount desc;
```

```

MariaDB [sqlminiproject]> select A.name as name1,B.name as name2,A.email,A.amount from customer A,customer B where A.customer_id=B.customer_id order by A.amount desc;
+-----+-----+-----+-----+
| name1 | name2 | email | amount |
+-----+-----+-----+-----+
| sameer1 | sameer1 | sameer@gmail.com | 255550 |
| Vijay | Vijay | vijay@gmail.com | 111150 |
| Ban | Ban | ban@gmail.com | 2600 |
| halima | halima | halima@gmail.com | 2500 |
| rahul | rahul | vijay@gmail.com | 240 |
| sameer | sameer | sameer@gmail.com | 230 |
| Bhavan | Bhavan | bhavan@gmail.com | 220 |
| hammad | hammad | hmmed@gmail.com | 202 |
| tasu | tasu | btu@gmail.com | 200 |
| Vijay | Vijay | vijay@gmail.com | 190 |
| Sdaa | Sdaa | sda@gmail.com | 180 |
| Bhavan | Bhavan | bhavan@gmail.com | 170 |
| hammadd | hammadd | hammed@gmail.com | 160 |
| Sachin Koppad | Sachin Koppad | sachin@gmail.com | 140 |
| Bhuvan | Bhuvan | bhuvan@gmail.com | 130 |
| Vinayak S P | Vinayak S P | vinay@gmail.com | 111 |
| tasu | tasu | bet@gmail.com | 50 |
+-----+-----+-----+-----+
17 rows in set (0.001 sec)

```

4. .Perform Right-join of two table from customer and cart to show the customer_id, name,email, and from cart table I take quantity and amount;

```

MariaDB [sqlminiproject]> Select customer.customer_id,customer.name,customer.email,card.quantity,card.amount from customer right join cart on customer.cart_id=card.cart_id;
+-----+-----+-----+-----+-----+
| customer_id | name | email | quantity | amount |
+-----+-----+-----+-----+-----+
| 1111 | Vinayak S P | vinay@gmail.com | 2 | 80 |
| NULL | NULL | NULL | 2 | 110 |
| NULL | NULL | NULL | 1 | 90 |
| 2227 | Bhuvan | bhuvan@gmail.com | 1 | 90 |
| 1144 | Vijay | vijay@gmail.com | 2 | 100 |
| 1114 | tasu | bet@gmail.com | 5 | 600 |
| 2296 | hammadd | hammed@gmail.com | 2 | 210 |
| 2127 | Bhavan | bhavan@gmail.com | 2 | 70 |
| 2000 | Sdaa | sda@gmail.com | 2 | 100 |
| 1101 | Vijay | vijay@gmail.com | 5 | 500 |
| 1012 | tasu | btu@gmail.com | 1 | 40 |
| 26 | hammad | hmmed@gmail.com | 6 | 444 |
| 2007 | Bhavan | bhavan@gmail.com | 2 | 200 |
| 2200 | sameer | sameer@gmail.com | 3 | 333 |
| 1001 | rahul | vijay@gmail.com | 5 | 1140 |
| NULL | NULL | NULL | 5 | 1240 |
| 126 | halima | halima@gmail.com | 2 | 456 |
| 2012 | Ban | ban@gmail.com | 1 | 50 |
| 2220 | sameer1 | sameer@gmail.com | 2 | 455 |
| NULL | NULL | NULL | 1 | 20 |
+-----+-----+-----+-----+-----+
20 rows in set (0.002 sec)

```

5. perform join with union clause;

```
MariaDB [sqlminiproject]> select cart.cart_id ,cart.quantity from cart union select product.cust_id,product.prod_name from product where prod_name IS NULL;
```

cart_id	quantity
10	2
41	2
44	1
47	1
48	2
55	5
56	2
67	2
68	2
69	5
87	1
89	6
98	2
99	3
118	5
119	5
125	2
126	1
127	2
129	1

20 rows in set (0.001 sec)