

Investment management

Introduction:

Investment management refers to the handling of financial assets and other investments—not only buying and selling them.

Management includes devising a short- or long-term strategy for acquiring and disposing of portfolio holdings.

It can also include banking, budgeting, and tax services and duties, as well.

The term most often refers to managing the holdings within an investment portfolio, and the trading of them to achieve a specific investment objective.

Investment management is also known as money management, portfolio management, or wealth management.

Clients of investment managers can be either individual or institutional investors.

Investment management includes devising strategies and executing trades within a financial portfolio.

Objective:

The company will be able to easily track the details of customer investment.

It will give a proper relation regarding which customer are investing in which investment portfolio.

It will give details regarding how many customer are being doing investment on regular basis.

It will helps tracking customer more interest in which investment field.

STRUCTURE OF TABLE

CUSTOMER:

This table contains the details of all the customer such as their name, location, mobile number customer id.

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

Field	Type	Null	Key	Default	Extra
cust_id	int(11)	NO	PRI	NULL	
cust_name	varchar(30)	YES		NULL	
location	varchar(20)	YES		NULL	
mobile_num	bigint(20)	YES		NULL	

STOCK:

This table contains all the investment related to stock.

```
MariaDB [investment]> desc stock;
```

Field	Type	Null	Key	Default	Extra
company_code	bigint(20)	YES		NULL	
company_name	varchar(30)	YES		NULL	
Invested_amt	bigint(20)	YES		NULL	
No_of_shares	bigint(20)	YES		NULL	
cust_ref_id	int(11)	YES	MUL	NULL	

MUTUAL FUND:

This table contains all the investment related to mutual fund.

```
MariaDB [investment]> desc mutual_fund;
```

Field	Type	Null	Key	Default	Extra
foilo_number	bigint(20)	YES		NULL	
fund_name	varchar(300)	YES		NULL	
invested_amt	bigint(20)	YES		NULL	
cust_ref_id	int(11)	YES	MUL	NULL	

FD:

This table contains all the investment related to fd.

```
MariaDB [investment]> desc fd;
```

Field	Type	Null	Key	Default	Extra
receipt_no	bigint(20)	YES		NULL	
Bank_name	varchar(100)	YES		NULL	
invested_amount	bigint(20)	YES		NULL	
maturity_value	bigint(20)	YES		NULL	
cust_ref_id	int(11)	YES	MUL	NULL	

CONTENTS OF TABLE

Customer:

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

cust_id	cust_name	location	mobile_num
1	rahul	dadar	1234567891
2	rohit	sion	1234567892
3	kiran	mulund	1234567893
4	nishaant	mulund	1234567894
5	krishna	thane	1234567895
6	sandeep	thane	1234567896
7	durga	diva	1234567897
8	Akash	kalyan	1234567898
9	daksh	bdl	1234567899
10	darsh	amb	1334567899
11	reyansh	amb	1344567899
12	Aditi	andheri	1354567899
13	rohan	pune	1354567899
14	sahil	kurla	1364567899
15	devansh	vikhroli	1234567123
16	navya	vikhroli	1234567145
17	tushar	cst	1234567147
18	diya	mulund	1234567148
19	jaya	kalyan	1234567143
20	kirti	thane	1231231231

STOCK

```
MariaDB [investment]> select * from stock;
```

company_code	company_name	Invested_amt	No_of_shares	cust_ref_id
123	bajfiance	45000	50	5
111	adani	60000	200	7
456	yes_bank	80000	5000	3
789	tcs	100000	1000	4
121	infosys	200000	500	1
921	icici	400000	700	2
991	itc	200000	450	5
232	axis	50000	100	6
241	wipro	25000	400	8
293	nestle	45000	250	9
294	jsw	40000	950	10
295	ntpc	150000	400	8
296	tata motors	150000	1000	11
297	adani	400000	4000	12
298	vedanta	80000	3000	15
299	dabur	200000	300	14
300	adani	250000	2000	18
301	tata_motors	42000	1500	19
302	dfl	60000	500	15
303	cipla	80000	900	17

MUTUAL FUND:

```
MariaDB [investment]> select * from mutual_fund;
```

foilo_number	fund_name	invested_amt	cust_ref_id
12345	uti_fexi_cap	50000	5
12356	sbi_contra	1000000	1
12357	dsp_focus	150000	2
12358	elss	200000	2
12359	hdfc	300000	3
12360	idfc	80000	4
12361	jm_flexi	200000	5
12362	dsp_equity	250000	6
12363	canara_bluechip	200000	7
12364	nippon_fund	1000000	7
12365	white_oak	500000	9
12366	icici_fund	100000	10
12367	quant_fund	80000	11
12368	invesco	40000	12
12369	sundaram_flexi	90000	15
123670	sundaram_midcap	50000	16
123671	tata_small_cap	150000	17
123672	tata_midcap	250000	14
123673	tata_largecap	300000	15
123674	hdfc_midcap	300000	18

FD

```
MariaDB [investment]> select * from fd;
```

receipt_no	Bank_name	invested_amount	maturity_value	cust_ref_id
111	icici	100000	150000	1
112	hdfc	150000	200000	2
113	boi	200000	250000	3
114	bob	400000	450000	5
115	bob	500000	550000	6
116	axis	500000	550000	9
117	bandhan	250000	300000	10
118	uco	250000	300000	5
119	bob	150000	200000	11
120	boi	500000	550000	13
121	icici	500000	550000	11
122	icici	500000	550000	17
123	bob	500000	550000	19
124	axis	200000	250000	15
125	bob	200000	250000	14
126	bob	300000	350000	16
126	Axis	400000	450000	17
127	bob	400000	450000	11
128	boi	200000	250000	13
129	Axis	200000	250000	14

SUBQUERIES

- Find the customer name who has not invested in stock.

```
>>>MariaDB [investment]> select cust_id,cust_name from customer  
where cust_id not in(select cust_ref_id from stock );
```

cust_id	cust_name
13	rohan
16	navya
20	kirti

- show customer details who have invested in stock and mutual fund.

```
>>> MariaDB [investment]> select * from customer where cust_id in(select  
cust_ref_id from mutual_fund) in (select cust_ref_id from stock);
```

cust_id	cust_name	location	mobile_num
1	rahul	dadar	1234567891
2	rohit	sion	1234567892
3	kiran	mulund	1234567893
4	nishaant	mulund	1234567894
5	krishna	thane	1234567895
6	sandeep	thane	1234567896
7	durga	diva	1234567897
9	daksh	bdl	1234567899
10	darsh	amb	1334567899
11	reyansh	amb	1344567899
12	Aditi	andheri	1354567899
14	sahil	kurla	1364567899
15	devansh	vikhroli	1234567123
16	navya	vikhroli	1234567145
17	tushar	cst	1234567147
18	diya	mulund	1234567148

- show the customer who has invested in bob bank for fd from thane location

```
>>> MariaDB [investment]> select * from customer where location='thane'
and cust_id in (select cust_ref_id from fd where bank_name='bob');
```

cust_id	cust_name	location	mobile_num
5	krishna	thane	1234567895
6	sandeep	thane	1234567896

JOINS

- Two table join

```
>>> MariaDB [investment]> select
cust_id,cust_name,location,mobile_num,invested_amount as
fd_investment,bank_name,maturity_value from customer inner
join fd on customer.cust_id=fd.cust_ref_id order by cust_id;
```

cust_id	cust_name	location	mobile_num	fd_investment	bank_name	maturity_value
1	rahul	dadar	1234567891	100000	icici	150000
2	rohit	sion	1234567892	150000	hdfc	200000
3	kiran	mulund	1234567893	200000	boi	250000
5	krishna	thane	1234567895	400000	bob	450000
5	krishna	thane	1234567895	250000	uco	300000
6	sandeep	thane	1234567896	500000	bob	550000
9	daksh	bdl	1234567899	500000	axis	550000
10	darsh	amb	1334567899	250000	bandhan	300000
11	reyansh	amb	1344567899	400000	bob	450000
11	reyansh	amb	1344567899	500000	icici	550000
11	reyansh	amb	1344567899	150000	bob	200000
13	rohan	pune	1354567899	500000	boi	550000
13	rohan	pune	1354567899	200000	boi	250000
14	sahil	kurla	1364567899	200000	Axis	250000
14	sahil	kurla	1364567899	200000	bob	250000
15	devansh	vikhroli	1234567123	200000	axis	250000
16	navya	vikhroli	1234567145	300000	bob	350000
17	tushar	cst	1234567147	400000	Axis	450000
17	tushar	cst	1234567147	500000	icici	550000
19	jaya	kalyan	1234567143	500000	bob	550000

```
>>> MariaDB [investment]> select
cust_id,cust_name,location,mobile_num,invested_Amt as
stock_investment,company_name,company_code from customer
Right join stock on customer.cust_id=stock.cust_ref_id order by
cust_id;
```

cust_id	cust_name	location	mobile_num	stock_investment	company_name	company_code
1	rahul	dadar	1234567891	200000	infosys	121
2	rohit	sion	1234567892	400000	icici	921
3	kiran	mulund	1234567893	80000	yes_bank	456
4	nishaant	mulund	1234567894	100000	tcs	789
5	krishna	thane	1234567895	45000	bajfiance	123
5	krishna	thane	1234567895	200000	itc	991
6	sandeep	thane	1234567896	50000	axis	232
7	durga	diva	1234567897	60000	adanient	111
8	Akash	kalyan	1234567898	25000	wipro	241
8	Akash	kalyan	1234567898	150000	ntpc	295
9	daksh	bdl	1234567899	45000	nestle	293
10	darsh	amb	1334567899	40000	jsw	294
11	reyansh	amb	1344567899	150000	tata motors	296
12	Aditi	andheri	1354567899	400000	adani	297
14	sahil	kurla	1364567899	200000	dabur	299
15	devansh	vikhroli	1234567123	80000	vedanta	298
15	devansh	vikhroli	1234567123	60000	dfl	302
17	tushar	cst	1234567147	80000	cipla	303
18	diya	mulund	1234567148	250000	adani	300
19	jaya	kalyan	1234567143	42000	tata_motors	301

- Three table join

```
>>> MariaDB [investment]> select
cust_id,cust_name,location,mobile_num,invested_amount as
fd_investment,company_name,invested_amt as stock_investment
from customer inner join fd on customer.cust_id=fd.cust_ref_id
inner join stock on fd.cust_ref_id=stock.cust_ref_id order by
cust_id;
```


cust_id	cust_name	location	mobile_num	fd_investment	company_name	stock_investment
1	rahul	dadar	1234567891	100000	infosys	200000
2	rohit	sion	1234567892	150000	icici	400000
3	kiran	mulund	1234567893	200000	yes_bank	80000
5	krishna	thane	1234567895	400000	bajfiance	45000
5	krishna	thane	1234567895	400000	itc	200000
5	krishna	thane	1234567895	250000	bajfiance	45000
5	krishna	thane	1234567895	250000	itc	200000
6	sandeep	thane	1234567896	500000	axis	50000
9	daksh	bdl	1234567899	500000	nestle	45000
10	darsh	amb	1334567899	250000	jsw	40000
11	reyansh	amb	1344567899	400000	tata motors	150000
11	reyansh	amb	1344567899	500000	tata motors	150000
11	reyansh	amb	1344567899	150000	tata motors	150000
14	sahil	kurla	1364567899	200000	dabur	200000
14	sahil	kurla	1364567899	200000	dabur	200000
15	devansh	vikhroli	1234567123	200000	vedanta	80000
15	devansh	vikhroli	1234567123	200000	dfi	60000
17	tushar	cst	1234567147	400000	cipla	80000
17	tushar	cst	1234567147	500000	cipla	80000
19	jaya	kalyan	1234567143	500000	tata motors	42000

Query

- find those customer and count who has invested in mutual fund in more than one funds .

```
>>> MariaDB [investment]> select cust_ref_id,count(cust_ref_id)
from mutual_fund group by cust_ref_id having
count(cust_ref_id)>1 order by cust_ref_id;
```

cust_ref_id	count(cust_ref_id)
2	2
5	2
7	2
15	2

- show total investment of customer who has invested in mutual fund more than one.

```
>>> MariaDB [investment]> select cust_ref_id,sum(invested_amt)
total_investment from mutual_fund group by cust_ref_id having
count(cust_ref_id)>1 order by cust_ref_id;
```

cust_ref_id	total_investment
2	350000
5	250000
7	1200000
15	390000

- multiple table views

```
>>> MariaDB [investment]> create view view_fd_customer as
select
cust_id,cust_name,location,mobile_num,sum(invested_amount)
fd_investment,sum(maturity_value) fd_maturity_amt from
customer,fd where cust_id=cust_ref_id group by cust_id order by
cust_id;
```

```
MariaDB [investment]> select * from view_fd_customer;
```

cust_id	cust_name	location	mobile_num	fd_investment	fd_maturity_amt
1	rahul	dadar	1234567891	100000	150000
2	rohit	sion	1234567892	150000	200000
3	kiran	mulund	1234567893	200000	250000
5	krishna	thane	1234567895	650000	750000
6	sandeep	thane	1234567896	500000	550000
9	daksh	bdl	1234567899	500000	550000
10	darsh	amb	1334567899	250000	300000
11	reyansh	amb	1344567899	1050000	1200000
13	rohan	pune	1354567899	700000	800000
14	sahil	kurla	1364567899	400000	500000
15	devansh	vikhroli	1234567123	200000	250000
16	navya	vikhroli	1234567145	300000	350000
17	tushar	cst	1234567147	900000	1000000
19	jaya	kalyan	1234567143	500000	550000

```
>>> MariaDB [investment]> create view view_stock as select  
cust_id,cust_name,location,sum(invested_amt)  
stock_investment,company_code from customer,stock where  
cust_id=cust_ref_id group by cust_id order by cust_id;
```

```
MariaDB [investment]> select * from view_stock;
```

cust_id	cust_name	location	stock_investment	company_code
1	rahul	dadar	200000	121
2	rohit	sion	400000	921
3	kiran	mulund	80000	456
4	nishaant	mulund	100000	789
5	krishna	thane	245000	123
6	sandeep	thane	50000	232
7	durga	diva	60000	111
8	Akash	kalyan	175000	241
9	daksh	bdl	45000	293
10	darsh	amb	40000	294
11	reyansh	amb	150000	296
12	Aditi	andheri	400000	297
14	sahil	kurla	200000	299
15	devansh	vikhroli	140000	298
17	tushar	cst	80000	303
18	diya	mulund	250000	300
19	jaya	kalyan	42000	301