

```
1)CREATE DATABASE new_loanq;
MariaDB [(none)]> create database new_loanq;
Query OK, 1 row affected (0.03 sec)
```

```
2)USE new_loanq;
MariaDB [(none)]> use new_loanq;
Database changed
```

```
3)CREATE TABLE loan_card_master
(
loan_id int(6) PRIMARY KEY,
loan_type varchar(20),
duration_in_years int(2)
);
```

```
MariaDB [new_loanq]> create table loan_card_master
-> (
-> loan_id int(6) primary key,
-> loan_type varchar(20),
-> duration_in_years int(2)
-> );
Query OK, 0 rows affected (0.40 sec)
```

```
4)CREATE TABLE employee_master
(
employee_id varchar(10) PRIMARY KEY,
employee_name varchar(30),
designation varchar(15),
gender varchar(6),
department varchar(20),
date_of_birth date,
date_of_joining date
);
```

```
5)CREATE TABLE item_master
(
item_id varchar(10) PRIMARY KEY,
item_description varchar(50),
issue_status varchar(10),
item_make varchar(20),
item_category varchar(20),
```

```
item_valuation double(7,2)
);

6)
CREATE TABLE employee_card_details
(
employee_id varchar(10) REFERENCES employee_master,
loan_id varchar(10) REFERENCES loan_card_master,
card_issue_date date
);

7)
CREATE TABLE employee_issue_details
(
issue_id varchar(10) PRIMARY KEY,
employee_id varchar(10) REFERENCES employee_master,
item_id varchar(10) REFERENCES item_master,
issue_date date,
return_date date
);
```

Insertion starts here -

```
insert into loan_card_master
values(00001,'stationary',5);
```

```
insert into loan_card_master
values(00002,'recurring',1);
```

```
insert into loan_card_master
values(00003,'fixed',4);
```

```
insert into loan_card_master
values(00004,'recurring',5);
```

```
insert into loan_card_master
values(00005,'stationary',3);
```

```
insert into loan_card_master
values(00006,'fixed',2);
```

```
insert into loan_card_master
values(00007,'recurring',1);
```

```
insert into loan_card_master
values(00008,'stationary',3);
```

Display in Tables-

```
1)select * from employee_master;
MariaDB [new_loanq]> select * from employee_master;
Empty set (0.04 sec)
```

Insertion here -

```
insert into employee_master
values('E001','ram','pat','male','hr','1988-04-01','2001-02-14');

insert into employee_master
values('E002','sashi','cat','male','account','1967-02-10','2010-02-04');

insert into employee_master
values('E003','prerna','trainee','female','hr','1990-10-09','2010-10-14');

insert into employee_master
values('E004','pratik','assoc','male','prod','1988-05-12','2005-02-12');

insert into employee_master
values('E005','ram','trainee','male','prod','1978-04-03','2001-02-14');

insert into employee_master
values('E006','ram','pat','male','account','1968-02-05','2007-01-04');

insert into employee_master
values('E007','vivek','assoc','male','hr','1958-09-05','2006-03-12');

insert into employee_master
values('E008','garima','cat','female','account','1990-12-11','2007-04-01');

insert into employee_master
values('E009','ramesh','pat','male','prod','1992-04-04','1998-05-06');

insert into employee_master
values('E010','jatin','assoc','male','account','1994-07-12','2012-01-04');

insert into employee_master
values('E011','sonam','pat','female','prod','1996-03-01','2013-07-03');

insert into employee_master
values('E012','surya','pat','female','prod','1996-03-01','2013-07-03');

insert into item_master
values ('i001','iugiuhou','yes','hand','furniture',2000);
```

```
insert into item_master
values ('i002','iugiuhou','no','contract','product',2050);

insert into item_master
values ('i003','iugiuhou','yes','hand','furniture',3000);

insert into item_master
values ('i004','iugiuhou','no','contract','product',7000);

insert into item_master
values ('i005','iugiuhou','no','hand','furniture',8000);

insert into item_master
values ('i006','iugiuhou','yes','machine','product',10000);

insert into item_master
values ('i007','iugiuhou','yes','contract','furniture',7000);

insert into item_master
values ('i008','iugiuhou','no','machine','product',5000);

insert into item_master
values ('i009','iugiuhou','no','hand','product',4000);

insert into item_master
values ('i010','iugiuhou','yes','machine','furniture',1000);

insert into item_master
values ('i013','iugiuhou','yes','machine','product',2000);


insert into employee_card_details
values('e001','00001','2013-10-09');

insert into employee_card_details
values('e005','00005','2011-04-10');

insert into employee_card_details
values('e008','00003','2009-06-04');

insert into employee_card_details
values('e007','00009','2003-02-01');


insert into employee_issue_details
values('iss001','e002','i007','2013-10-02','2013-11-11');
```

```
insert into employee_issue_details
values('iss009','e002','i006','2012-10-02','2013-09-04');

insert into employee_issue_details
values('iss010','e002','i007','2011-04-02','2013-11-01');

insert into employee_issue_details
values('iss011','e002','i003','2010-07-02','2013-11-03');

insert into employee_issue_details
values('iss002','e001','i006','2014-03-02','2014-11-11');

insert into employee_issue_details
values('iss003','e009','i001','2012-01-02','2013-03-05');

insert into employee_issue_details
values('iss004','e004','i003','2010-03-02','2011-06-01');

insert into employee_issue_details
values('iss012','e004','i007','2009-03-04','2009-11-01');

insert into employee_issue_details
values('iss013','e004','i007','2008-08-02','2008-09-09');
insert into employee_issue_details
values('iss014','e004','i006','2011-03-07','2011-06-01');

insert into employee_issue_details
values('iss005','e007','i010','2009-04-02','2009-07-07');

insert into employee_issue_details
values('iss006','e009','i007','2010-05-02','2012-12-08');

insert into employee_issue_details
values('iss016','e009','i013','2010-05-02','2012-12-08');

insert into employee_issue_details
values('iss007','e004','i010','2013-10-02','2013-11-11');

select * from item_master;

insert into employee_issue_details
values('iss021','e012','i001','2013-10-02','2013-11-11');
insert into employee_issue_details
values('iss022','e012','i001','2010-03-02','2011-06-01');

insert into employee_issue_details
values('iss023','e012','i005','2009-03-04','2009-11-01');
```

```
insert into employee_issue_details
values('iss024','e012','i005','2008-08-02','2008-09-09');
```

```
insert into employee_issue_details
values('iss025','e012','i005','2011-03-07','2011-06-01');
```

```
1)select * from employee_issue_details;
MariaDB [new_loanq]> select * from employee_issue_details;
```

issue_id	employee_id	item_id	issue_date	return_date
iss001	e002	i007	2013-10-02	2013-11-11
iss002	e001	i006	2014-03-02	2014-11-11
iss003	e009	i001	2012-01-02	2013-03-05
iss004	e004	i003	2010-03-02	2011-06-01
iss005	e007	i010	2009-04-02	2009-07-07
iss006	e009	i007	2010-05-02	2012-12-08
iss007	e004	i010	2013-10-02	2013-11-11
iss009	e002	i006	2012-10-02	2013-09-04
iss010	e002	i007	2011-04-02	2013-11-01
iss011	e002	i003	2010-07-02	2013-11-03
iss012	e004	i007	2009-03-04	2009-11-01
iss013	e004	i007	2008-08-02	2008-09-09
iss014	e004	i006	2011-03-07	2011-06-01
iss016	e009	i013	2010-05-02	2012-12-08
iss021	e012	i001	2013-10-02	2013-11-11
iss022	e012	i001	2010-03-02	2011-06-01
iss023	e012	i005	2009-03-04	2009-11-01
iss024	e012	i005	2008-08-02	2008-09-09
iss025	e012	i005	2011-03-07	2011-06-01

19 rows in set (0.00 sec)

```
2)select * from employee_card_details;
MariaDB [new_loanq]> select * from employee_card_details;
```

employee_id	loan_id	card_issue_date
e001	00001	2013-10-09
e005	00005	2011-04-10
e008	00003	2009-06-04
e007	00009	2003-02-01

4 rows in set (0.06 sec)

3)select * from item_master;

MariaDB [new_loanq]> select * from item_master;

item_id	item_description	issue_status	item_make	item_category	item_valuation
i001	iugiuhou	yes	hand	furniture	2000.00
i002	iugiuhou	no	contract	product	2050.00
i003	iugiuhou	yes	hand	furniture	3000.00
i004	iugiuhou	no	contract	product	7000.00
i005	iugiuhou	no	hand	furniture	8000.00
i006	iugiuhou	yes	machine	product	10000.00
i007	iugiuhou	yes	contract	furniture	7000.00
i008	iugiuhou	no	machine	product	5000.00
i009	iugiuhou	no	hand	product	4000.00
i010	iugiuhou	yes	machine	furniture	1000.00
i013	iugiuhou	yes	machine	product	2000.00

11 rows in set (0.06 sec)

4)select * from employee_master;

MariaDB [new_loanq]> select * from employee_master;

employee_id	employee_name	designation	gender	department	date_of_birth	date_of_joining
E001	ram	pat	male	hr	1988-04-01	2001-02-14
E002	sashi	cat	male	account	1967-02-10	2010-02-04
E003	prerna	trainee	female	hr	1990-10-09	2010-10-14
E004	pratik	assoc	male	prod	1988-05-12	2005-02-12
E005	ram	trainee	male	prod	1978-04-03	2001-02-14
E006	ram	pat	male	account	1968-02-05	2007-01-04
E007	vivek	assoc	male	hr	1958-09-05	2006-03-12
E008	garima	cat	female	account	1990-12-11	2007-04-01
E009	ramesh	pat	male	prod	1992-04-04	1998-05-06
E010	jatin	assoc	male	account	1994-07-12	2012-01-04
E011	sonam	pat	female	prod	1996-03-01	2013-07-03
E012	surya	pat	female	prod	1996-03-01	2013-07-03

12 rows in set (0.07 sec)

5)select * from loan_card_master;

MariaDB [new_loanq]> select * from loan_card_master;

loan_id	loan_type	duration_in_years
1	stationary	5
2	recurring	1
3	fixed	4
4	recurring	5

5	stationary	3
6	fixed	2
7	recurring	1
8	stationary	3

```
+-----+-----+-----+-----+
```

```
8 rows in set (0.06 sec)
```

```
/*-----QUERIES-----*/
```

QQ01. Display distinct Employee id, Employee name who kept the item issued for more than a year.

```
MariaDB [new_loanq]> select distinct eid.employee_id,employee_name
```

```
-> from
```

```
-> employee_issue_details eid JOIN
```

```
-> employee_master em
```

```
-> ON
```

```
-> eid.employee_id=em.employee_id
```

```
-> where datediff(return_date,issue_date)>365
```

```
-> order by eid.employee_id;
```

```
+-----+-----+-----+-----+
```

employee_id	employee_name
-------------	---------------

```
+-----+-----+-----+-----+
```

e002	sashi
------	-------

e004	pratik
------	--------

e009	ramesh
------	--------

e012	surya
------	-------

```
+-----+-----+-----+-----+
```

```
4 rows in set (0.08 sec)
```

02. Count number of customers who have gone for loan type Stationary.

```
MariaDB [new_loanq]> select count(employee_id)
```

```
-> from loan_card_master lcm,
```

```
-> employee_card_details ecd
```

```
-> where lcm.loan_id=ecd.loan_id
```

```
-> and loan_type='Stationary';
```

```
+-----+-----+-----+-----+
```

count(employee_id)

```
+-----+-----+-----+-----+
```

2

```
+-----+-----+-----+-----+
```


1 row in set (0.00 sec)

03. Display Category and number of item in that category.

MariaDB [new_loanq]> select item_category,count(*) from item_master GROUP BY item_category;

item_category	count(*)
furniture	5
product	6

2 rows in set (0.02 sec)

Q4. Empid ,Emp Name who joined the company after 2005.

MariaDB [new_loanq]> select employee_id, employee_name
from employee_master where year('date_of_joining')>2005;
Empty set, 1 warning (0.04 sec)

05. Count gender and group by gender.

MariaDB [new_loanq]> select count(gender) from employee_master group by gender;

count(gender)
4
8

2 rows in set (0.00 sec)

06. Count number of employees whose issue status is yes.

MariaDB [new_loanq]> select employee_id from employee_issue_details
-> where item_id IN (select item_id from item_master where issue_status='yes')
-> order by employee_id;

employee_id
e001
e002
e002
e002
e002
e004

e004
e004
e004
e004
e007
e009
e009
e009
e012
e012

+-----+

16 rows in set (0.00 sec)

```
MariaDB [new_loanq]> select distinct employee_id from employee_issue_details
-> where item_id IN (select item_id from item_master where issue_status='yes');
```

+-----+

employee_id

+-----+

e002
e001
e009
e004
e007
e012

+-----+

6 rows in set (0.00 sec)

```
MariaDB [new_loanq]> select distinct count(employee_id) from employee_issue_details
-> where item_id IN (select item_id from item_master where issue_status='yes');
```

+-----+

count(employee_id)

+-----+

16

+-----+

1 row in set (0.01 sec)

QQ08.Find the max of total valuation of employees whose purchase is in two different categories.

09.Display count of employees who have recieved loan.

```
MariaDB [new_loanq]> select count(employee_id) from employee_card_details;
```

+-----+

count(employee_id)

+-----+

```
|          4 |
+-----+
1 row in set (0.00 sec)
```

10. Display emp id, emp name and no of furniture purchased by employee who purchased more than one furniture.

```
MariaDB [new_loanq]> SELECT eid.employee_id, employee_name, count(eid.item_id) COUNT_ITEMS
-> FROM employee_issue_details eid JOIN item_master im
-> ON eid.item_id=im.item_id
-> JOIN employee_master em
-> ON eid.employee_id=em.employee_id
-> WHERE item_category='furniture'
-> GROUP BY employee_id
-> HAVING COUNT_ITEMS>1
-> order by eid.employee_id;
```

```
+-----+
| employee_id | employee_name | COUNT_ITEMS |
+-----+
| e002        | sashi        | 3           |
| e004        | pratik       | 4           |
| e009        | ramesh       | 2           |
| e012        | surya        | 5           |
+-----+
```

4 rows in set (0.00 sec)

11. Details of issue id, emp id, name who had issued in product display in sorted order of issue_id.

12. Display customer who has not availed for loan.

```
SELECT employee_id, employee_name
-> FROM employee_master
-> WHERE employee_id NOT IN ( SELECT employee_id FROM employee_card_details )
-> order by employee_id;
```

```
+-----+
| employee_id | employee_name |
+-----+
| E002        | sashi        |
| E003        | prerna       |
```

E004	pratik
E006	ram
E009	ramesh
E010	jatin
E011	sonam
E012	surya

+-----+
8 rows in set (0.08 sec)

QQ13. Display emp records for whom never issued an item as a loan order based on emp id

MariaDB [new_loanq]> select employee_id,employee_name,department from

-> employee_master where employee_id

-> NOT IN (select employee_id from employee_issue_details)order by employee_id;

employee_id	employee_name	department
E003	prerna	hr
E005	ram	prod
E006	ram	account
E008	garima	account
E010	jatin	account
E011	sonam	prod

+-----+
6 rows in set (0.04 sec)

QQ14. Display empid,name who has the highest valuation.

if multiple records then display

in order of emp id

MariaDB [new_loanq]> select eid.employee_id,employee_name

-> from employee_master em INNER JOIN

-> employee_issue_details eid

-> on em.employee_id=eid.employee_id

-> INNER JOIN item_master im

-> ON eid.item_id =im.item_id

-> where item_valuation =

-> (select max(item_valuation)

-> from employee_issue_details eid INNER JOIN item_master im

-> ON eid.item_id=im.item_id) order by eid.employee_id;

employee_id	employee_name
e001	ram
e002	sashi
e004	pratik

3 rows in set (0.06 sec)

15. Display No. of emp in HR dept

MariaDB [new_loanq]> select count(employee_id) from employee_master where department='hr';

```
+-----+
| count(employee_id) |
+-----+
|                3 |
+-----+
```

1 row in set (0.00 sec)

16. Display issue status and number of items of furniture based on issued and not issued.

17. Display empid and total valuation of each employee where employee must have at least one product issued

18. Disp empid,name and count of categories of each emp having at least 2 categories

```
MariaDB [new_loanq]> SELECT em.employee_id,employee_name, count(distinct item_category) COUNT_CATEGORY
-> FROM employee_issue_details eid JOIN item_master im
-> ON eid.item_id=im.item_id
-> JOIN employee_master em
-> ON eid.employee_id=em.employee_id
-> GROUP BY employee_id
-> HAVING COUNT_CATEGORY>=2
-> ORDER BY employee_id;
```

```
+-----+-----+-----+
| employee_id | employee_name | COUNT_CATEGORY |
+-----+-----+-----+
| E002       | sashi        | 2              |
| E004       | pratik       | 2              |
| E009       | ramesh       | 2              |
+-----+-----+-----+
```

3 rows in set (0.00 sec)

19. Display name of categories and no of items in each category

and sort in order of no of items

20. Display empid,name with their total valuations.

```
MariaDB [new_loanq]> SELECT em.employee_id,  
-> employee_name,  
-> sum(item_valuation) TOTAL_VALUATION  
-> FROM employee_master em  
-> INNER JOIN  
-> employee_issue_details eid  
-> ON em.employee_id=eid.employee_id  
-> INNER JOIN item_master im  
-> ON  
-> eid.item_id=im.item_id  
-> GROUP BY eid.employee_id  
-> ORDER BY eid.employee_id;
```

employee_id	employee_name	TOTAL_VALUATION
E001	ram	10000.00
E002	sashi	27000.00
E004	pratik	28000.00
E007	vivek	1000.00
E009	ramesh	11000.00
E012	surya	28000.00

6 rows in set (0.00 sec)