

-----DDL-----

```
CREATE DATABASE mt_db;
USE mt_db;
```

```
Create table CUSTOMER_MASTER
(
    CUSTOMER_ID Varchar(10),
    CUSTOMER_NAME Varchar(30) NOT NULL,
    CONTACT_NO BIGINT(10),
    CONTACT_ADD Varchar(20),
    DATE_OF_REGISTRATION Date NOT NULL,
    AGE Varchar(15) NOT NULL,
    Constraint MT_cts1 PRIMARY KEY(CUSTOMER_ID)
);--
```

```
Create table LIBRARY_CARD_MASTER
(
    CARD_ID Varchar(10),
    DESCRIPTION Varchar(30) NOT NULL,
    AMOUNT BIGINT(50),
    NUMBER_OF_YEARS bigint(10) NOT NULL,
    Constraint MT_cts2 PRIMARY KEY(CARD_ID)
);
```

```
Create table MOVIES_MASTER
(
    MOVIE_ID Varchar(10),
    MOVIE_NAME Varchar(50) NOT NULL,
    RELEASE_DATE Varchar(30) NOT NULL,
    LANGUAGE Varchar(30),
    RATING int(2),
    DURATION VARCHAR(10) NOT NULL,
    MOVIE_TYPE Varchar(3),
    MOVIE_CATEGORY VARCHAR(20) NOT NULL,
    DIRECTOR VARCHAR(20) NOT NULL,
    LEAD_ROLE_1 Varchar(3) NOT NULL,
    LEAD_ROLE_2 VARCHAR(4) NOT NULL,
    RENT_COST BIGINT(10),
    Constraint MT_cts4 PRIMARY KEY(MOVIE_ID)
);
```

```
Create table CUSTOMER_CARD_DETAILS
(
    CUSTOMER_ID Varchar(10),
    CARD_ID VARCHAR(10),
    ISSUE_DATE DATE NOT NULL,
    Constraint MT_cts3 PRIMARY KEY(CUSTOMER_ID),
    Constraint MT_CTS41 FOREIGN KEY(CUSTOMER_ID) References
CUSTOMER_MASTER(CUSTOMER_ID),
    Constraint MT_CTS42 FOREIGN KEY(CARD_ID) References
LIBRARY_CARD_MASTER(CARD_ID)
);
```

```

Create table CUSTOMER_ISSUE_DETAILS
(
    ISSUE_ID Varchar(10) NOT NULL,
    CUSTOMER_ID Varchar(10) NOT NULL,
    MOVIE_ID VARCHAR(10),
    ISSUE_DATE Date NOT NULL,
    RETURN_DATE Date NOT NULL,
    ACTUAL_DATE_RETURN Date NOT NULL,
    Constraint MT_cts5 PRIMARY KEY(ISSUE_ID),
    Constraint MT_Mem FOREIGN KEY(CUSTOMER_ID) References
CUSTOMER_MASTER(CUSTOMER_ID),
    Constraint MT_Mem1 FOREIGN KEY(MOVIE_ID) References
MOVIES_MASTER(MOVIE_ID)
);

```

-----DML-----

```

Insert into CUSTOMER_MASTER Values('CUS001', 'AMIT',
9876543210,'ADD1', '2012-02-12', '21');
Insert into CUSTOMER_MASTER Values('CUS002', 'ABDHUL',
8765432109,'ADD2', '2012-02-12', '21');
Insert into CUSTOMER_MASTER Values('CUS003', 'GAYAN',
7654321098,'ADD3', '2012-02-12', '21');
Insert into CUSTOMER_MASTER Values('CUS004', 'RADHA',
6543210987,'ADD4', '2012-02-12', '21');
Insert into CUSTOMER_MASTER Values('CUS005', 'GURU', NULL,'ADD5',
'2012-02-12', '21');
Insert into CUSTOMER_MASTER Values('CUS006', 'MOHAN',
4321098765,'ADD6', '2012-02-12', '21');
Insert into CUSTOMER_MASTER Values('CUS007', 'NAME7',
3210987654,'ADD7', '2012-02-12', '21');
Insert into CUSTOMER_MASTER Values('CUS008', 'NAME8',
2109876543,'ADD8', '2013-02-12', '21');
Insert into CUSTOMER_MASTER Values('CUS009', 'NAME9', NULL,'ADD9',
'2013-02-12', '21');
Insert into CUSTOMER_MASTER Values('CUS010', 'NAM10',
9934567890,'ADD10', '2013-02-12', '21');
Insert into CUSTOMER_MASTER Values('CUS011', 'NAM11',
9875678910,'ADD11', '2013-02-12', '21');

Insert into LIBRARY_CARD_MASTER Values('CR001', 'Silver', 200, 5);
Insert into LIBRARY_CARD_MASTER Values('CR002', 'Gold', 400, 9);
Insert into LIBRARY_CARD_MASTER Values('CR003', 'Platinum', 600, 8);
Insert into LIBRARY_CARD_MASTER Values('CR004', 'VISA', 800, 7);
Insert into LIBRARY_CARD_MASTER Values('CR005', 'CREDIT', 1200, 6);

Insert into MOVIES_MASTER Values('MV001', 'DIEHARD', '2012-05-
13','ENGLISH', 4 , '2HRS', 'U/A','ACTION','DIR1','L1','L2',100);
Insert into MOVIES_MASTER Values('MV002', 'THE MATRIX', '2012-05-
13','ENGLISH', 4 , '2HRS', 'A','ACTION','DIR2','L1','L2',100);
Insert into MOVIES_MASTER Values('MV003', 'INCEPTION', '2012-05-
13','ENGLISH', 4 , '2HRS', 'U/A','ACTION','DIR3','L15','L2',100);

```

```

Insert into MOVIES_MASTER Values('MV004', 'DARK KNIGHT', '2012-05-
13','ENGLISH', 4 , '2HRS', 'A','ACTION','DIR4','L15','L2',100);
Insert into MOVIES_MASTER Values('MV005', 'OFFICE S', '2012-05-
13','ENGLISH', 4 , '2HRS', 'U/A','COMEDY','DIR5','L12','L24',100);
Insert into MOVIES_MASTER Values('MV006', 'SHAWN OF DEAD', '2012-05-
13','ENGLISH', 4 , '2HRS', 'U/A','COMEDY','DIR6','L1','L25',100);
Insert into MOVIES_MASTER Values('MV007', 'YOUNG FRANKEN', '2012-05-
13','ENGLISH', 4 , '2HRS', 'U/A','COMEDY','DIR7','L1','L2',100);
Insert into MOVIES_MASTER Values('MV008', 'CAS', '2012-05-
13','ENGLISH', 4 , '2HRS', 'A','ROMANCE','DIR8','L1','L2',100);
Insert into MOVIES_MASTER Values('MV009', 'GWW', '2012-05-
13','ENGLISH', 4 , '2HRS', 'A','ROMANCE','DIR9','L1','L2',100);
Insert into MOVIES_MASTER Values('MV010', 'TITANIC', '2012-05-
13','ENGLISH', 4 , '2HRS', 'A','ROMANCE','DIR10','L1','L2',100);
Insert into MOVIES_MASTER Values('MV011', 'THE NOTE BOOK', '2012-05-
13','ENGLISH', 4 , '2HRS', 'A','ROMANCE','DIR11','L1','L2',100);

```

```

Insert into CUSTOMER_CARD_DETAILS Values('CUS001', 'CR001', '2012-05-
13');
Insert into CUSTOMER_CARD_DETAILS Values('CUS002', 'CR002', '2012-05-
13');
Insert into CUSTOMER_CARD_DETAILS Values('CUS003', 'CR002', '2013-05-
13');
Insert into CUSTOMER_CARD_DETAILS Values('CUS004', 'CR003', '2013-05-
13');
Insert into CUSTOMER_CARD_DETAILS Values('CUS005', 'CR003', '2012-05-
13');

```

```

Insert into CUSTOMER_ISSUE_DETAILS Values ('IS001', 'CUS001', 'MV001',
'2012-05-13', '2012-05-13','2012-05-13');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS002', 'CUS001', 'MV001',
'2012-05-01', '2012-05-16','2012-05-16');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS003', 'CUS002', 'MV004',
'2012-05-02', '2012-05-06','2012-05-16');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS004', 'CUS002', 'MV004',
'2012-04-03', '2012-04-16','2012-04-20');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS005', 'CUS002', 'MV009',
'2012-04-04', '2012-04-16','2012-04-20');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS006', 'CUS003', 'MV002',
'2012-03-30', '2012-04-15','2012-04-20');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS007', 'CUS003', 'MV003',
'2012-04-20', '2012-05-05','2012-05-05');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS008', 'CUS003', 'MV005',
'2012-04-21', '2012-05-07','2012-05-25');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS009', 'CUS003', 'MV001',
'2012-04-22', '2012-05-07','2012-05-25');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS010', 'CUS003', 'MV009',
'2012-04-22', '2012-05-07','2012-05-25');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS011', 'CUS003', 'MV010',
'2012-04-23', '2012-05-07','2012-05-25');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS012', 'CUS003', 'MV010',
'2012-04-24', '2012-05-07','2012-05-25');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS013', 'CUS003', 'MV008',
'2012-04-25', '2012-05-07','2012-05-25');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS014', 'CUS004', 'MV007',
'2012-04-26', '2012-05-07','2012-05-25');

```

```

Insert into CUSTOMER_ISSUE_DETAILS Values ('IS015', 'CUS004', 'MV006',
'2012-04-27', '2012-05-07','2012-05-25');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS016', 'CUS004', 'MV006',
'2012-04-28', '2012-05-07','2012-05-25');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS017', 'CUS004', 'MV001',
'2012-04-29', '2012-05-07','2012-05-25');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS018', 'CUS010', 'MV008',
'2012-04-24', '2012-05-07','2012-05-25');
Insert into CUSTOMER_ISSUE_DETAILS Values ('IS019', 'CUS011', 'MV009',
'2012-04-27', '2012-05-07','2012-05-25');

```

-----LAYOUT-----

```
mysql> show tables;
```

```

+-----+
| Tables_in_mms |
+-----+
| customer_card_details |
| customer_issue_details |
| customer_master |
| library_card_master |
| movies_master |
+-----+
5 rows in set (0.01 sec)

```

```
mysql> desc movies_master;
```

```

+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| MOVIE_ID | varchar(10) | NO | PRI | | |
| MOVIE_NAME | varchar(50) | NO | | NULL | |
| RELEASE_DATE | varchar(30) | NO | | NULL | |
| LANGUAGE | varchar(30) | YES | | NULL | |
| RATING | int(2) | YES | | NULL | |
| DURATION | varchar(10) | NO | | NULL | |
| MOVIE_TYPE | varchar(3) | YES | | NULL | |
| MOVIE_CATEGORY | varchar(20) | NO | | NULL | |
| DIRECTOR | varchar(20) | NO | | NULL | |
| LEAD_ROLE_1 | varchar(3) | NO | | NULL | |
| LEAD_ROLE_2 | varchar(4) | NO | | NULL | |
| RENT_COST | bigint(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
12 rows in set (0.05 sec)

```

```
mysql> SELECT * FROM movies_master;
```

```

+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
+-----+
| MOVIE_ID | MOVIE_NAME | RELEASE_DATE | LANGUAGE | RATING |
DURATION | MOVIE_TYPE | MOVIE_CATEGORY | DIRECTOR | LEAD_ROLE_1 |

```

```

LEAD_ROLE_2 | RENT_COST |
+-----+-----+-----+-----+-----+-----+
---+-----+
| MV001      | DIEHARD          | 2012-05-13 | ENGLISH | 4 | 2HRS |
| U/A        | ACTION          | DIR1       | L1      | L2 |      |
100 |
| MV002      | THE MATRIX       | 2012-05-13 | ENGLISH | 4 | 2HRS |
| A          | ACTION          | DIR2       | L1      | L2 |      |
100 |
| MV003      | INCEPTION        | 2012-05-13 | ENGLISH | 4 | 2HRS |
| U/A        | ACTION          | DIR3       | L15     | L2 |      |
100 |
| MV004      | DARK KNIGHT      | 2012-05-13 | ENGLISH | 4 | 2HRS |
| A          | ACTION          | DIR4       | L15     | L2 |      |
100 |
| MV005      | OFFICE S         | 2012-05-13 | ENGLISH | 4 | 2HRS |
| U/A        | COMEDY          | DIR5       | L12     | L24 |      |
100 |
| MV006      | SHAWN OF DEAD    | 2012-05-13 | ENGLISH | 4 | 2HRS |
| U/A        | COMEDY          | DIR6       | L1      | L25 |      |
100 |
| MV007      | YOUNG FRANKEN    | 2012-05-13 | ENGLISH | 4 | 2HRS |
| U/A        | COMEDY          | DIR7       | L1      | L2 |      |
100 |
| MV008      | CAS              | 2012-05-13 | ENGLISH | 4 | 2HRS |
| A          | ROMANCE         | DIR8       | L1      | L2 |      |
100 |
| MV009      | GWW              | 2012-05-13 | ENGLISH | 4 | 2HRS |
| A          | ROMANCE         | DIR9       | L1      | L2 |      |
100 |
| MV010      | TITANIC          | 2012-05-13 | ENGLISH | 4 | 2HRS |
| A          | ROMANCE         | DIR10      | L1      | L2 |      |
100 |
| MV011      | THE NOTE BOOK    | 2012-05-13 | ENGLISH | 4 | 2HRS |
| A          | ROMANCE         | DIR11      | L1      | L2 |      |
100 |
+-----+-----+-----+-----+-----+-----+
---+-----+
11 rows in set (0.00 sec)

```

```
mysql> desc customer_master;
```

```

+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| CUSTOMER_ID    | varchar(10)   | NO   | PRI |         |       |
| CUSTOMER_NAME  | varchar(30)   | NO   |     | NULL    |       |
| CONTACT_NO     | bigint(10)    | YES  |     | NULL    |       |
| CONTACT_ADD    | varchar(20)   | YES  |     | NULL    |       |
| DATE_OF_REGISTRATION | date         | NO   |     | NULL    |       |
| AGE            | varchar(15)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+

```

6 rows in set (0.01 sec)

```
mysql> SELECT * FROM customer_master;
```

+-----+-----+-----+-----+-----+-----+					
+-----+-----+					
CUSTOMER_ID	CUSTOMER_NAME	CONTACT_NO	CONTACT_ADD	DATE_OF_REGISTRATION	AGE
+-----+-----+-----+-----+-----+-----+					
+-----+-----+					
CUS001	AMIT	9876543210	ADD1	2012-02-12	21
CUS002	ABDHUL	8765432109	ADD2	2012-02-12	21
CUS003	GAYAN	7654321098	ADD3	2012-02-12	21
CUS004	RADHA	6543210987	ADD4	2012-02-12	21
CUS005	GURU	NULL	ADD5	2012-02-12	21
CUS006	MOHAN	4321098765	ADD6	2012-02-12	21
CUS007	NAME7	3210987654	ADD7	2012-02-12	21
CUS008	NAME8	2109876543	ADD8	2013-02-12	21
CUS009	NAME9	NULL	ADD9	2013-02-12	21
CUS010	NAM10	9934567890	ADD10	2013-02-12	21
CUS011	NAM11	9875678910	ADD11	2013-02-12	21
+-----+-----+-----+-----+-----+-----+					
+-----+-----+					

11 rows in set (0.00 sec)

```
mysql> desc library_card_master;
```

Field	Type	Null	Key	Default	Extra
CARD_ID	varchar(10)	NO	PRI		
DESCRIPTION	varchar(30)	NO		NULL	
AMOUNT	bigint(50)	YES		NULL	
NUMBER_OF_YEARS	bigint(10)	NO		NULL	

4 rows in set (0.01 sec)

```
mysql> select * from library_card_master;
```

CARD_ID	DESCRIPTION	AMOUNT	NUMBER_OF_YEARS
---------	-------------	--------	-----------------

CR001	Silver	200	5
CR002	Gold	400	9
CR003	Platinum	600	8
CR004	VISA	800	7
CR005	CREDIT	1200	6

5 rows in set (0.00 sec)

mysql> desc customer_card_details;

Field	Type	Null	Key	Default	Extra
CUSTOMER_ID	varchar(10)	NO	PRI		
CARD_ID	varchar(10)	YES	MUL	NULL	
ISSUE_DATE	date	NO		NULL	

3 rows in set (0.02 sec)

mysql> SELECT * FROM customer_card_details;

CUSTOMER_ID	CARD_ID	ISSUE_DATE
CUS001	CR001	2012-05-13
CUS002	CR002	2012-05-13
CUS003	CR002	2013-05-13
CUS004	CR003	2013-05-13
CUS005	CR003	2012-05-13

5 rows in set (0.00 sec)

mysql> desc customer_issue_details;

Field	Type	Null	Key	Default	Extra
ISSUE_ID	varchar(10)	NO	PRI	NULL	
CUSTOMER_ID	varchar(10)	NO	MUL	NULL	
MOVIE_ID	varchar(10)	YES	MUL	NULL	
ISSUE_DATE	date	NO		NULL	
RETURN_DATE	date	NO		NULL	
ACTUAL_DATE_RETURN	date	NO		NULL	

6 rows in set (0.03 sec)

```
mysql> SELECT * FROM customer_issue_details;
```

ISSUE_ID	CUSTOMER_ID	MOVIE_ID	ISSUE_DATE	RETURN_DATE	ACTUAL_DATE_RETURN
IS001	CUS001	MV001	2012-05-13	2012-05-13	2012-05-13
IS002	CUS001	MV001	2012-05-01	2012-05-16	2012-05-16
IS003	CUS002	MV004	2012-05-02	2012-05-06	2012-05-16
IS004	CUS002	MV004	2012-04-03	2012-04-16	2012-04-20
IS005	CUS002	MV009	2012-04-04	2012-04-16	2012-04-20
IS006	CUS003	MV002	2012-03-30	2012-04-15	2012-04-20
IS007	CUS003	MV003	2012-04-20	2012-05-05	2012-05-05
IS008	CUS003	MV005	2012-04-21	2012-05-07	2012-05-25
IS009	CUS003	MV001	2012-04-22	2012-05-07	2012-05-25
IS010	CUS003	MV009	2012-04-22	2012-05-07	2012-05-25
IS011	CUS003	MV010	2012-04-23	2012-05-07	2012-05-25
IS012	CUS003	MV010	2012-04-24	2012-05-07	2012-05-25
IS013	CUS003	MV008	2012-04-25	2012-05-07	2012-05-25
IS014	CUS004	MV007	2012-04-26	2012-05-07	2012-05-25
IS015	CUS004	MV006	2012-04-27	2012-05-07	2012-05-25
IS016	CUS004	MV006	2012-04-28	2012-05-07	2012-05-25
IS017	CUS004	MV001	2012-04-29	2012-05-07	2012-05-25
IS018	CUS010	MV008	2012-04-24	2012-05-07	2012-05-25
IS019	CUS011	MV009	2012-04-27	2012-05-07	2012-05-25

19 rows in set (0.00 sec)

display customer name,customer id who have issued max and min no.of movies

Problem #2

display id,name,mobile num and description of all customers.if mobile num is not available then display address as alias contact,for those who doesn't have library cards display null as description

Problem #3

display customer details and movie id for those who issued same movie more than one time OR
//display customer details who watched same movie more than once

Problem #4

display customer information those who has library cards

Problem #5

display the members who watch the movie but doesn't have card

Problem #6

display sr no as 2 digits of issue id,emp id,movie watched,video id and sort by sr no

Problem #7

display total revenue spent on videos by each customer