

Database Management Systems

Assignment 2

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Question1: Creating table Accounts

```
create table accounts(  
  receipt_no int,  
  receipt_desc varchar(50),  
  payment_mode varchar(20) default 'Cash',  
  amount int,  
  status varchar(15),  
  check (amount>1000),  
  primary key (receipt_no),  
);
```

```

MySQL localhost:3306 ssl institute SQL > create table accounts(
    -> receipt_no int,
    -> receipt_desc varchar(50),
    -> payment_mode varchar(20) default 'Cash',
    -> amount int,
    -> status varchar(15),
    -> check (amount>1000),
    -> primary key (receipt_no)
    -> );
Query OK, 0 rows affected (0.0783 sec)
MySQL localhost:3306 ssl institute SQL > show tables;
+-----+
| Tables_in_institute |
+-----+
| accounts             |
| course               |
| department           |
| instructor           |
| section              |
| teachers             |
+-----+
6 rows in set (0.0010 sec)
MySQL localhost:3306 ssl institute SQL > describe accounts;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| receipt_no | int           | NO   | PRI | NULL    |       |
| receipt_desc | varchar(50)   | YES  |     | NULL    |       |
| payment_mode | varchar(20)   | YES  |     | Cash    |       |
| amount      | int           | YES  |     | NULL    |       |
| status      | varchar(15)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.0032 sec)
MySQL localhost:3306 ssl institute SQL >

```

Filling up the table:

```

insert into accounts(receipt_no, receipt_desc, payment_mode, amount,
status)
values
(101, 'Tuition Fee', 'Cash', 17000, 'Paid'),
(102, 'Development Fee', 'Cash', 5000, 'Due'),
(103, 'Exam Fee', 'Cheque', 1500, 'Paid'),
(104, 'Tuition Fee', 'Online', 24000, 'Due'),
(105, 'Exam Fee', 'Cheque', 1500, 'Paid');

```

```
MySQL localhost:3306 ssl institute SQL > insert into accounts(receipt_no, receipt_desc, payment_mode, amount, status)
-> values
-> (101, 'Tuition Fee', 'Cash', 17000, 'Paid'),
-> (102, 'Development Fee', 'Cash', 5000, 'Due'),
-> (103, 'Exam Fee', 'Cheque', 1500, 'Paid'),
-> (104, 'Tuition Fee', 'Online', 24000, 'Due'),
-> (105, 'Exam Fee', 'Cheque', 1500, 'Paid');

Query OK, 5 rows affected (0.0089 sec)

Records: 5 Duplicates: 0 Warnings: 0
MySQL localhost:3306 ssl institute SQL > select * from accounts;
+-----+-----+-----+-----+-----+
| receipt_no | receipt_desc | payment_mode | amount | status |
+-----+-----+-----+-----+-----+
| 101 | Tuition Fee | Cash | 17000 | Paid |
| 102 | Development Fee | Cash | 5000 | Due |
| 103 | Exam Fee | Cheque | 1500 | Paid |
| 104 | Tuition Fee | Online | 24000 | Due |
| 105 | Exam Fee | Cheque | 1500 | Paid |
+-----+-----+-----+-----+-----+
5 rows in set (0.0003 sec)
```

Question 2:

- Update “Exam Fee” amount to 2000 for all records in the table.
- Set “status” = paid for receipt_no = 102
- If payment_mode = “cash” then update the amount by 1000

A.

```
update accounts
set amount = 2000
where receipt_desc = 'Exam Fee';
```

```
MySQL localhost:3306 ssl institute SQL > update accounts
-> set amount = 2000
-> where receipt_desc = 'Exam Fee' ;

Query OK, 2 rows affected (0.0029 sec)

Rows matched: 2 Changed: 2 Warnings: 0
MySQL localhost:3306 ssl institute SQL > select * from accounts;
+-----+-----+-----+-----+-----+
| receipt_no | receipt_desc | payment_mode | amount | status |
+-----+-----+-----+-----+-----+
| 101 | Tuition Fee | Cash | 17000 | Paid |
| 102 | Development Fee | Cash | 5000 | Due |
| 103 | Exam Fee | Cheque | 2000 | Paid |
| 104 | Tuition Fee | Online | 24000 | Due |
| 105 | Exam Fee | Cheque | 2000 | Paid |
+-----+-----+-----+-----+-----+
5 rows in set (0.0108 sec)
```

B.

update accounts

set status = 'Paid'

Where receipt_no = 102;

```
MySQL localhost:3306 ssl institute SQL > update accounts
      -> set status = 'Paid'
      -> where receipt_no = 102;

Query OK, 1 row affected (0.0027 sec)

Rows matched: 1  Changed: 1  Warnings: 0
MySQL localhost:3306 ssl institute SQL > select * from accounts;
+-----+-----+-----+-----+-----+
| receipt_no | receipt_desc | payment_mode | amount | status |
+-----+-----+-----+-----+-----+
| 101 | Tuition Fee | Cash | 17000 | Paid |
| 102 | Development Fee | Cash | 5000 | Paid |
| 103 | Exam Fee | Cheque | 2000 | Paid |
| 104 | Tuition Fee | Online | 24000 | Due |
| 105 | Exam Fee | Cheque | 2000 | Paid |
+-----+-----+-----+-----+-----+
5 rows in set (0.0007 sec)
```

C.

```
update accounts
set amount = amount + 1000
where payment_mode = 'Cash';
```

```
MySQL localhost:3306 ssl institute SQL > update accounts
      -> set amount = amount + 1000
      -> where payment_mode = 'Cash';

Query OK, 2 rows affected (0.0019 sec)

Rows matched: 2  Changed: 2  Warnings: 0
MySQL localhost:3306 ssl institute SQL > select * from accounts;
+-----+-----+-----+-----+-----+
| receipt_no | receipt_desc | payment_mode | amount | status |
+-----+-----+-----+-----+-----+
| 101 | Tuition Fee | Cash | 18000 | Paid |
| 102 | Development Fee | Cash | 6000 | Paid |
| 103 | Exam Fee | Cheque | 2000 | Paid |
| 104 | Tuition Fee | Online | 24000 | Due |
| 105 | Exam Fee | Cheque | 2000 | Paid |
+-----+-----+-----+-----+-----+
5 rows in set (0.0009 sec)
MySQL localhost:3306 ssl institute SQL > 
```

Question.3 Perform following operations on Accounts

- Delete record for receipt_no - 105
- Delete all records where status = paid

A.

```
delete from accounts
where receipt_no = 105;
```

```
MySQL localhost:3306 ssl institute SQL > delete from accounts
                                     -> where receipt_no = 105;
Query OK, 1 row affected (0.0039 sec)
MySQL localhost:3306 ssl institute SQL > select * from accounts;
+-----+-----+-----+-----+-----+
| receipt_no | receipt_desc | payment_mode | amount | status |
+-----+-----+-----+-----+-----+
| 101 | Tuition Fee | Cash | 18000 | Paid |
| 102 | Development Fee | Cash | 6000 | Paid |
| 103 | Exam Fee | Cheque | 2000 | Paid |
| 104 | Tuition Fee | Online | 24000 | Due |
+-----+-----+-----+-----+-----+
4 rows in set (0.0007 sec)
MySQL localhost:3306 ssl institute SQL > 
```

B.

```
delete from accounts
Where status = 'Paid';
```

```
MySQL localhost:3306 ssl institute SQL > delete from accounts
                                     -> where status = 'Paid';
Query OK, 3 rows affected (0.0123 sec)
MySQL localhost:3306 ssl institute SQL > select * from accounts;
+-----+-----+-----+-----+-----+
| receipt_no | receipt_desc | payment_mode | amount | status |
+-----+-----+-----+-----+-----+
| 104 | Tuition Fee | Online | 24000 | Due |
+-----+-----+-----+-----+-----+
1 row in set (0.0003 sec)
MySQL localhost:3306 ssl institute SQL > 
```