

```
mysql -u $USER -p$PASS students <<EOF 2> /dev/null
CREATE TABLE students(
id int,
name varchar(100),
mark int,
dept varchar(4)
);
EOF

[ $? -eq 0 ] && echo Created table students || echo Table students
already exist

mysql -u $USER -p$PASS students <<EOF
DELETE FROM students;
EOF
```

The script for inserting data into the table is as follows:

```
#!/bin/bash
#Filename: write_to_db.sh
#Description: Read from CSV and write to MySQLdb

USER="user"
PASS="user"

if [ $# -ne 1 ];
then
    echo $0 DATAFILE
    echo
    exit 2
fi

data=$1

while read line;
do

    oldIFS=$IFS
    IFS=,
    values=($line)
    values[1]="\"`echo ${values[1]} | tr ' ' '#' `\""
    values[3]="\"`echo ${values[3]} `\""

    query=`echo ${values[@]} | tr ' #' ', ' `
```

```
IFS=$oldIFS

mysql -u $USER -p$PASS students <<EOF
INSERT INTO students VALUES($query);
EOF

done< $data
echo Wrote data into DB
```

The script for the query from the database is as follows:

```
#!/bin/bash
#Filename: read_db.sh
#Description: Read from the database

USER="user"
PASS="user"

depts=`mysql -u $USER -p$PASS students <<EOF | tail -n +2
SELECT DISTINCT dept FROM students;
EOF`

for d in $depts;
do

echo Department : $d

result=`mysql -u $USER -p$PASS students <<EOF
SET @i:=0;
SELECT @i:=@i+1 as rank,name,mark FROM students WHERE dept="$d" ORDER
BY mark DESC;
EOF`

echo "$result"
echo

done
```

The data for the input CSV file (studentdata.csv) is as follows:

```
1,Navin M,98,CS
2,Kavya N,70,CS
3,Nawaz O,80,CS
4,Hari S,80,EC
5,Alex M,50,EC
```