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Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 14

Institute of computer technology
Ganpat university
B.tech. CSE (CBA/BDA/CS)

(2CSE301) DATABASE MANAGEMENT SYSTEM

PRACTICAL 14 (Cursor)

1. Write Cursor which display employee information from Employee table

```
mycli -h haribol64 -
376.0 b/s | 264.0 b/s | 11:57:04 AM
mycli -h haribol64 -

MariaDB yash@haribol64 in prac_14 > delimiter //
Changed delimiter to //
Time: 0.000s

MariaDB yash@haribol64 in prac_14 > create procedure p14_1()
--> begin
--> declare x int;
--> declare y text;
--> declare z text;
--> declare w int;
--> declare exit_loop boolean;
--> declare c1 cursor for select * from employee;
--> declare continue handler for not found set exit_loop=true;
--> open c1;
--> l1:loop
--> fetch c1 into x,y,z,w;
--> select x,y,z,w;
--> if exit_loop then
--> close c1;
--> leave l1;
--> end if;
--> end loop l1;
--> end
--> //

Query OK, 0 rows affected
Time: 0.008s

MariaDB yash@haribol64 in prac_14 > call p14_1();
--> //

+-----+-----+-----+-----+
| x | y | z | w |
+-----+-----+-----+-----+
| 1 | AASHRI SHARMA | Ahmedabad | 42639 |
+-----+-----+-----+-----+

1 row in set
Time: 0.015s
```

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2. Implements Cursor which reads one by one row from Employee table and insert data in EmployeeInfo table.

```
mycli -h haribol64 -
0.0 b/s 0.0 b/s 11:57:57 AM
mycli -h haribol64 -
Time: 0.002s
MariaDB yash@haribol64 in prac_14 > create procedure p14_2()
--> begin
--> declare x int;
--> declare y text;
--> declare z text;
--> declare w int;
--> declare exit_loop boolean;
--> declare c2 cursor for select * from employee;
--> declare continue handler for not found set exit_loop=true;
--> open c2;
--> l2:loop
--> fetch c2 into x,y,z,w;
--> insert into employeeinfo values(x,y,z,w);
--> if exit_loop then
--> close c2;
--> leave l2;
--> end if;
--> end loop l2;
--> end
--> //
Query OK, 0 rows affected
Time: 0.010s
MariaDB yash@haribol64 in prac_14 > call p14_2()//
Query OK, 26 rows affected
Time: 0.032s
MariaDB yash@haribol64 in prac_14 >

(Delimiter [//] will end the line) [F3] Multiline: ON
```

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```
mycli -h haribot64 -
5.5 kb/s 8.9 kb/s 12:14:05 PM
mycli -h haribot64 -

MariaDB yash@haribot64 in prac_14 > select * from employeeinfo//
+-----+-----+-----+-----+
| empno | name          | city      | salary |
+-----+-----+-----+-----+
| 1      | AASHRI SHARMA | Ahmedabad | 42639   |
| 2      | AVANI GAJJAR  | Baroda    | 42251   |
| 3      | BHAVSAR NAITIK UTTAM | Ahmedabad | 35770   |
| 4      | GAJJAR MANUSHI JIGAR | Ahmedabad | 36876   |
| 5      | KAMLI HEM MANOJ | Mumbai    | 34739   |
| 6      | PARIKH HET DARSHAN | Baroda    | 49317   |
| 7      | PATEL NRUPABEN PRAVI | Ahmedabad | 37063   |
| 8      | SONI AARYAN RAJENDRA | Ahmedabad | 32727   |
| 9      | AKOLA YASHVI CHIMANB | Ahmedabad | 49425   |
| 10     | PATEL NEELKUMAR ALPE | Mumbai    | 46006   |
| 11     | PATEL RAJVI MANISHBH | Mumbai    | 48155   |
| 12     | PATEL TANISHKKUMAR A | Baroda    | 40566   |
| 13     | PATEL UJJVAL KIRANBH | Baroda    | 42228   |
| 14     | PATEL AKSHAR   | Baroda    | 41663   |
| 15     | PATEL DEEPAKUMAR NAVA | Mumbai    | 43354   |
| 16     | PATEL DHRUV MANOJKUM | Mumbai    | 45882   |
| 17     | PATEL HARSH JAGDISHB | Ahmedabad | 31788   |
| 18     | PATEL HARSHIL RAMANL | Ahmedabad | 34114   |
| 19     | PATEL PARTH KALUBHAI | Ahmedabad | 38811   |
| 20     | PATEL SARJAN SHASHIK | Mumbai    | 48408   |
| 21     | ARCHAN M VYAS    | Mumbai    | 47057   |
| 22     | DHARMAGNA VYAS    | Mumbai    | 35676   |
| 23     | PUROHIT DEVANSHIBEN | Mumbai    | 39840   |
| 24     | DEVARSH MISTRY    | Ahmedabad | 32724   |
| 25     | RUSHI DEVENBHAI GOKA | Baroda    | 48729   |
| 25     | RUSHI DEVENBHAI GOKA | Baroda    | 48729   |
+-----+-----+-----+-----+

26 rows in set
Time: 0.012s

MariaDB yash@haribot64 in prac_14 > 
```

3. Implements Cursor which reads one by one row from Student table and insert all BDA student in data in table BDASStudent and insert all CBA student data in table CBASStudent and insert all CS student data in table CSStudent

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```
mycli -h haribol64 -
376.0 b/s 264.0 b/s 11:58:53 AM
mycli -h haribol64 -

MariaDB yash@haribol64 in prac_14 > create procedure p14_3()
--> begin
--> declare x int;
--> declare y varchar(30);
--> declare z varchar(30);
--> declare exit_loop boolean;
--> declare c3 cursor for select * from student;
--> declare continue handler for not found set exit_loop=true;
--> open c3;
--> l3:loop
--> fetch c3 into x,y,z;
--> if z="CBA" then
--> insert into cbastudent values(x,y,z);
--> end if;
--> if z="BDA" then
--> insert into bdastudent values(x,y,z);
--> end if;
--> if z="CS" then
--> insert into csstudent values(x,y,z);
--> end if;
--> if exit_loop then
--> close c3;
--> leave l3;
--> end if;
--> end loop l3;
--> end
--> //

Query OK, 0 rows affected
Time: 0.010s

MariaDB yash@haribol64 in prac_14 > call p14_3()//
Query OK, 16 rows affected
Time: 0.021s

MariaDB yash@haribol64 in prac_14 > 
```

```
mycli -h haribol64 -
0.0 b/s 0.0 b/s 12:15:18 PM
mycli -h haribol64 -

+-----+
| 17 | PATEL HARSH JAGDISHB | Ahmedabad | 31788 |
| 18 | PATEL HARSHIL RAMANL | Ahmedabad | 34114 |
| 19 | PATEL PARTH KALUBHAI | Ahmedabad | 38811 |
| 20 | PATEL SARJAN SHASHIK | Mumbai | 48408 |
| 21 | ARCHAN M VYAS | Mumbai | 47857 |
| 22 | DHARMAGNA VYAS | Mumbai | 35676 |
| 23 | PUROHIT DEVANSHIBEN | Mumbai | 39840 |
| 24 | DEVARSH MISTRY | Ahmedabad | 32724 |
| 25 | RUSHI DEVENBHAI GOKA | Baroda | 48729 |
| 25 | RUSHI DEVENBHAI GOKA | Baroda | 48729 |
+-----+

26 rows in set
Time: 0.012s

MariaDB yash@haribol64 in prac_14 > select * from cbastudent//
+-----+
| rollno | name | branch |
+-----+
| 1 | Bhavesh | CBA |
| 2 | DEV | CBA |
| 3 | Yash | CBA |
| 4 | Raj | CBA |
| 5 | Kshitij | CBA |
+-----+

5 rows in set
Time: 0.008s

MariaDB yash@haribol64 in prac_14 > 
```

(Delimiter [//] will end the line) [F3] Multiline: ON

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4. Employee Management system manage all employee information. Implements Cursor which reads data from Employee table and update salary. Increase salary by 5000 whose salary is more than 40000 else increase salary by 1000.

```
mycli -h haribol64 - 0.0 b/s 0.0 b/s 11:59:49 AM
mycli -h haribol64 -
time: 0.021s

MariaDB yash@haribol64 in prac_14 > create procedure p14_4()
--> begin
--> declare x int;
--> declare y text;
--> declare z text;
--> declare w int;
--> declare exit_loop boolean;
--> declare c4 cursor for select * from employee;
--> declare continue handler for not found set exit_loop=true;
--> open c4;
--> l4:loop
--> fetch c4 into x,y,z,w;
--> if w>40000 then
--> update employee set salary=salary+5000 where x=empno;
--> else
--> update employee set salary=salary+1000;
--> end if;
--> if exit_loop then
--> close c4;
--> leave l4;
--> end if;end loop l4;
--> end
--> //

Query OK, 0 rows affected
Time: 0.009s

MariaDB yash@haribol64 in prac_14 > call p14_4()//
Query OK, 290 rows affected
Time: 0.030s

MariaDB yash@haribol64 in prac_14 > 
```

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```
mycli -h haribol64 -
0.0 b/s 0.0 b/s 12:15:37 PM
mycli -h haribol64 -

MariaDB yash@haribol64 in prac_14 > select * from employee//
+-----+-----+-----+-----+
| empno | name          | city    | salary |
+-----+-----+-----+-----+
| 1     | AASHRI SHARMA | Ahmedabad | 58639 |
| 2     | AVANI GAJJAR  | Baroda   | 58251 |
| 3     | BHAVSAR NAITIK UTTAM | Ahmedabad | 46770 |
| 4     | GAJJAR MANUSHI JIGAR | Ahmedabad | 47876 |
| 5     | KAMLI HEM MANOJ | Mumbai  | 45739 |
| 6     | PARIKH HET DARSHAN | Baroda   | 65317 |
| 7     | PATEL NRUPABEN PRAVI | Ahmedabad | 48063 |
| 8     | SONI AARYAN RAJENDRA | Ahmedabad | 43727 |
| 9     | AKOLA YASHVI CHIMANB | Ahmedabad | 65425 |
| 10    | PATEL NEELKUMAR ALPE | Mumbai  | 62006 |
| 11    | PATEL RAJVI MANISHBH | Mumbai  | 64155 |
| 12    | PATEL TANISHKKUMAR A | Baroda   | 56566 |
| 13    | PATEL UJJVAL KIRANBH | Baroda   | 58228 |
| 14    | PATEL AKSHAR   | Baroda   | 57663 |
| 15    | PATEL DEEPKUMAR NAVA | Mumbai  | 59354 |
| 16    | PATEL DHRUV MANOJKUM | Mumbai  | 61882 |
| 17    | PATEL HARSH JAGDISHB | Ahmedabad | 42788 |
| 18    | PATEL HARSHIL RAMANL | Ahmedabad | 45114 |
| 19    | PATEL PARTH KALUBHAI | Ahmedabad | 49811 |
| 20    | PATEL SARJAN SHASHIK | Mumbai  | 64408 |
| 21    | ARCHAN M VYAS   | Mumbai  | 63057 |
| 22    | DHARMAGNA VYAS   | Mumbai  | 46676 |
| 23    | PUROHIT DEVANSHIBEN | Mumbai  | 50840 |
| 24    | DEVARSH MISTRY   | Ahmedabad | 43724 |
| 25    | RUSHI DEVENBHAI GOKA | Baroda   | 69729 |
+-----+-----+-----+-----+

25 rows in set
Time: 0.012s

MariaDB yash@haribol64 in prac_14 > |
```

5. Implements Cursor which reads one by one row from Result table and insert row in Result1 table. Read percentage from result and based on percentage assign class to Students as per below

Percentage	class
100 – 70	Distinction
69 – 60	First Class
59 – 40	Second Class
< 40	Fail

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```
mycli -h haribol64 - 1.3 kb/s 920.0 b/s 12:00:25 PM
mycli -h haribol64 -

MariaDB yash@haribol64 in prac_14 > create procedure p14_5()
--> begin
--> declare x int;
--> declare y varchar(30);
--> declare z int;
--> declare exit_loop boolean;
--> declare c5 cursor for select * from result;
--> declare continue handler for not found set exit_loop=true;
--> open c5;
--> l5:loop
--> fetch c5 into x,y,z;
--> if z>=70 then
--> insert into result1 values(x,y,"Distinction");
--> elseif z>=60 then
--> insert into result1 values(x,y,"First Class");
--> elseif z>=40 then
--> insert into result1 values(x,y,"Second Class");
--> else
--> insert into result1 values(x,y,"Fail");
--> end if;
--> if exit_loop then
--> close c5;
--> leave l5;
--> end if;
--> end loop l5;
--> end
--> //

Query OK, 0 rows affected
Time: 0.010s

MariaDB yash@haribol64 in prac_14 > call p14_5()//
Query OK, 16 rows affected
Time: 0.022s

MariaDB yash@haribol64 in prac_14 > 
```

```
mycli -h haribol64 - 0.0 b/s 0.0 b/s 12:15:57 PM
mycli -h haribol64 -

25 rows in set
Time: 0.012s

MariaDB yash@haribol64 in prac_14 > select * from result1//
+-----+
| rollno | name   | class |
+-----+
| 1      | Bhavesh | First Class |
| 2      | DEV    | Distinction |
| 3      | Yash   | Fail      |
| 4      | Raj    | Second Class |
| 5      | Kshitij | Distinction |
| 11     | Rishabh | Second Class |
| 12     | Akshay | Second Class |
| 13     | Kunal  | First Class |
| 14     | Shahil | Distinction |
| 15     | Kunj   | Distinction |
| 21     | Harsh  | First Class |
| 22     | Jeel   | Second Class |
| 23     | Sanjay | Second Class |
| 24     | Amal   | First Class |
| 25     | Ojas   | First Class |
| 25     | Ojas   | First Class |
+-----+

16 rows in set
Time: 0.010s

MariaDB yash@haribol64 in prac_14 > 
```

(Delimiter [//] will end the line) [F3] Multiline: ON