

Views Indexes Assignment

Roll No.: 243514

Name: Dhruva Rakesh B

Date: 29-03-2024

Vehicle

Vid	Vname	Price	desc
1	Activa	80000	ksldjfksj
2	Santro	8,00000	kdjfkjsd
3	Motor bike	100000	fdkdfj

customer

Custid	Cname	address
1	Nilima	Pimpari
2	Ganesh	Pune
3	Pankaj	Mumbai

salesman

Sid	Sname	adress
10	Rajesh	mumbai
11	Seema	Pune
13	Rakhi	pune

cust-vehicle (customer is buying Many vehicle and 1 vehicle can be bought by many customers)

Custid	Vid	Sid	Buy_price
1	1	10	75000
1	2	10	7,90,000
2	3	11	80000
3	3	11	75000
3	2	10	8,00000

1. create all given tables

```
mysql> select * from vehicle;
+-----+-----+-----+-----+
| Vid | Vname      | Price | Description |
+-----+-----+-----+-----+
| 1   | Aactiva    | 80000 | scooter     |
| 2   | Santro     | 800000 | car         |
| 3   | Motor bike | 100000 | bike        |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select * from customer;
+-----+-----+-----+
| Custid | Cname | address |
+-----+-----+-----+
| 1       | Nilima | Pimpiri |
| 2       | Ganesh | Pune    |
| 3       | Pankaj | Mumbai  |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select * from salesman;
+-----+-----+-----+
| Sid | Sname | address |
+-----+-----+-----+
| 10  | Rajesh | Mumbai  |
| 11  | Seema  | Pune    |
| 13  | Rakhi  | Pune    |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select * from cust_vehicle;
+-----+-----+-----+-----+
| Custid | Vid | Sid | Buy_price |
+-----+-----+-----+-----+
| 1       | 1   | 10  | 75000     |
| 1       | 2   | 10  | 790000    |
| 2       | 3   | 11  | 80000     |
| 3       | 2   | 10  | 800000    |
| 3       | 3   | 11  | 75000     |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

2. create index on vehicle table based on price

```
mysql> ALTER TABLE vehicle ADD INDEX (Price);
Query OK, 0 rows affected (0.17 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> select * from vehicle;
```

Vid	Vname	Price	Description
1	Aktiva	80000	scooter
2	Santro	800000	car
3	Motor bike	100000	bike

3 rows in set (0.00 sec)

```
mysql> desc vehicle;
```

Field	Type	Null	Key	Default	Extra
Vid	int	NO	PRI	NULL	
Vname	varchar(15)	YES		NULL	
Price	int	YES	MUL	NULL	
Description	varchar(25)	YES		NULL	

4 rows in set (0.00 sec)

- find all customer name,vehicle name, salesman name, discount earn by all customer

```
mysql> SELECT c.Custid, c.Cname, v.Vname, s.Sname, (cv.Buy_price - v.Price) AS DiscountEarned
-> FROM customer c
-> INNER JOIN cust_vehicle cv ON c.Custid = cv.Custid
-> INNER JOIN vehicle v ON cv.Vid = v.Vid
-> INNER JOIN salesman s ON cv.Sid = s.Sid;
```

Custid	Cname	Vname	Sname	DiscountEarned
1	Nilima	Aktiva	Rajesh	-5000
3	Pankaj	Santro	Rajesh	0
1	Nilima	Santro	Rajesh	-10000
3	Pankaj	Motor bike	Seema	-25000
2	Ganesh	Motor bike	Seema	-20000

5 rows in set (0.02 sec)

- find all customer name,vehicle name,salesman name for all salesman who stays in pune

```
mysql> SELECT c.Cname, v.Vname, s.Sname, s.address
-> FROM customer c
-> INNER JOIN cust_vehicle cv ON c.Custid = cv.Custid
-> INNER JOIN vehicle v ON cv.Vid = v.Vid
-> RIGHT JOIN salesman s ON cv.Sid = s.Sid
-> WHERE s.address = 'Pune';
```

Cname	Vname	Sname	address
Ganesh	Motor bike	Seema	Pune
Pankaj	Motor bike	Seema	Pune
NULL	NULL	Rakhi	Pune

3 rows in set (0.00 sec)

5. find how many customers bought motor bike

```
mysql> SELECT COUNT(c.Custid)
-> FROM customer c
-> INNER JOIN cust_vehicle cv ON c.Custid = cv.Custid
-> INNER JOIN vehicle v ON cv.Vid = v.Vid
-> WHERE v.Vname='Motor bike';
```

COUNT(c.Custid)
2

1 row in set (0.00 sec)

6. create a view find_discount which displays output -----to create view

create view find_discount

as

select cname,vname,price,buying_price,price-buying_price "discount"

from customer c inner join cust_vehicle cv on c.custid=cv.cid inner join vehicle v on

v.vid=cv.vid

-----to display discount

select * from find_discount;

```
mysql> CREATE VIEW find_discount AS
-> SELECT c.Cname, v.Vname, Price, Buy_price, Price-Buy_price 'discount'
-> FROM customer c
-> INNER JOIN cust_vehicle cv ON c.Custid=cv.Custid
-> INNER JOIN vehicle v ON v.Vid=cv.Vid;
Query OK, 0 rows affected (0.04 sec)

mysql> SELECT * FROM find_discount;
+-----+-----+-----+-----+-----+
| Cname | Vname   | Price | Buy_price | discount |
+-----+-----+-----+-----+-----+
| Nilima | Activa  | 80000 | 75000    | 5000    |
| Pankaj | Santro  | 800000 | 800000   | 0        |
| Nilima | Santro  | 800000 | 790000   | 10000   |
| Pankaj | Motor bike | 100000 | 75000    | 25000   |
| Ganesh | Motor bike | 100000 | 80000    | 20000   |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

7. find all customer name, vehicle name, salesman name, discount earn by all customer

```
mysql> SELECT c.Cname, v.Vname, Price, s.Sname, Price-Buy_price 'discount earned'
-> FROM customer c
-> INNER JOIN cust_vehicle cv ON c.Custid=cv.Custid
-> INNER JOIN vehicle v ON v.Vid=cv.Vid
-> INNER JOIN salesman s ON cv.Sid = s.Sid;
+-----+-----+-----+-----+-----+
| Cname | Vname   | Price | Sname   | discount earned |
+-----+-----+-----+-----+-----+
| Nilima | Activa  | 80000 | Rajesh  | 5000            |
| Pankaj | Santro  | 800000 | Rajesh  | 0               |
| Nilima | Santro  | 800000 | Rajesh  | 10000           |
| Pankaj | Motor bike | 100000 | Seema   | 25000           |
| Ganesh | Motor bike | 100000 | Seema   | 20000           |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

8. create view my_hr to display empno,ename,job,comm for all employees who earn commission

```
mysql> CREATE VIEW my_hr AS
-> SELECT empno, ename, job, comm
-> FROM emp
-> WHERE comm IS NOT NULL;
Query OK, 0 rows affected (0.03 sec)
```



```
mysql> SELECT * FROM my_hr;
```

empno	ename	job	comm
8	uih_jhj	clerk	43.00
7499	ALLEN	SALESMAN	300.00
7521	WARD	SALESMAN	500.00
7654	MARTIN	SALESMAN	1400.00
7844	TURNER	SALESMAN	0.00

```
5 rows in set (0.01 sec)
```

9. create view mgr30 to display all employees from department 30

```
mysql> CREATE VIEW mgr30 AS
-> SELECT *
-> FROM emp
-> WHERE deptno=30;
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> SELECT * FROM mgr30;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
8	uih_jhj	clerk	5670	1981-05-06	543.00	43.00	30
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30

```
7 rows in set (0.00 sec)
```

10. insert 3 employees in view mgr30 check whether insertion is possible

```
mysql> INSERT INTO mgr30 VALUES (329, 'Nilima', 'CLERK', 211, '2006-05-06', 12345, 1, 30);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> INSERT INTO mgr30 VALUES (345, 'Ganesh', 'SALESMAN', 235, '2008-07-12', 19876, 3, 30);
Query OK, 1 row affected (0.07 sec)
```

```
mysql> INSERT INTO mgr30 VALUES (367, 'Pankaj', 'MANAGER', 242, '2010-09-24', 12847, 5, 30);
Query OK, 1 row affected (0.03 sec)
```

```
mysql> SELECT * FROM mgr30;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
8	uih_jhj	clerk	5670	1981-05-06	543.00	43.00	30
329	Nilima	CLERK	211	2006-05-06	12345.00	1.00	30
345	Ganesh	SALESMAN	235	2008-07-12	19876.00	3.00	30
367	Pankaj	MANAGER	242	2010-09-24	12847.00	5.00	30
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30

10 rows in set (0.00 sec)

11. insert 3 records in dept and display all records from dept

```
mysql> INSERT INTO dept VALUES (50, 'FINANCE', 'TEXAS');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> INSERT INTO dept VALUES (60, 'MARKETING', 'CALIFORNIA');  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO dept VALUES (70, 'PRODUCTION', 'FLORIDA');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> select * from dept;
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
50	FINANCE	TEXAS
60	MARKETING	CALIFORNIA
70	PRODUCTION	FLORIDA

7 rows in set (0.00 sec)

12. use rollback command check what happens

```
mysql> ROLLBACK;
Query OK, 0 rows affected (0.00 sec)

mysql> select * from dept;
+-----+-----+-----+
| DEPTNO | DNAME          | LOC          |
+-----+-----+-----+
|      10 | ACCOUNTING     | NEW YORK     |
|      20 | RESEARCH       | DALLAS       |
|      30 | SALES          | CHICAGO      |
|      40 | OPERATIONS     | BOSTON       |
|      50 | FINANCE        | TEXAS        |
|      60 | MARKETING      | CALIFORNIA   |
|      70 | PRODUCTION     | FLORIDA      |
+-----+-----+-----+
7 rows in set (0.00 sec)
```

13. do the following

```
mysql> SET autocommit=0;
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT * FROM emp;
+-----+-----+-----+-----+-----+-----+-----+-----+
| EMPNO | ENAME          | JOB          | MGR  | HIREDATE        | SAL      | COMM      | DEPTNO |
+-----+-----+-----+-----+-----+-----+-----+-----+
|      8 | uih_jhj        | clerk        | 5670 | 1981-05-06      | 543.00   | 43.00     | 30     |
|     329 | Nilima         | CLERK        | 211  | 2006-05-06      | 12345.00 | 1.00      | 30     |
|     345 | Ganesh         | SALESMAN     | 235  | 2008-07-12      | 19876.00 | 3.00      | 30     |
|     367 | Pankaj         | MANAGER      | 242  | 2010-09-24      | 12847.00 | 5.00      | 30     |
|    7369 | SMITH          | CLERK        | 7902 | 1980-12-17      | 800.00   | NULL      | 20     |
|    7499 | ALLEN          | SALESMAN     | 7698 | 1981-02-20      | 1600.00  | 300.00    | 30     |
|    7521 | WARD           | SALESMAN     | 7698 | 1981-02-22      | 1250.00  | 500.00    | 30     |
|    7566 | JONES          | MANAGER      | 7839 | 1981-04-02      | 2975.00  | NULL      | 20     |
|    7654 | MARTIN         | SALESMAN     | 7698 | 1981-09-28      | 1250.00  | 1400.00   | 30     |
|    7698 | BLAKE          | MANAGER      | 7839 | 1981-05-01      | 2850.00  | NULL      | 30     |
|    7782 | CLARK          | MANAGER      | 7839 | 1981-06-09      | 2450.00  | NULL      | 10     |
|    7788 | SCOTT          | ANALYST      | 7566 | 1982-12-09      | 3000.00  | NULL      | 20     |
|    7839 | KING           | PRESIDENT    | NULL | 1981-11-17      | 5000.00  | NULL      | 10     |
|    7844 | TURNER         | SALESMAN     | 7698 | 1981-09-08      | 1500.00  | 0.00      | 30     |
|    7876 | ADAMS          | CLERK        | 7788 | 1983-01-12      | 1100.00  | NULL      | 20     |
|    7900 | JAMES          | CLERK        | 7698 | 1981-12-03      | 950.00   | NULL      | 30     |
|    7902 | FORD           | ANALYST      | 7566 | 1981-12-03      | 3000.00  | NULL      | 20     |
|    7934 | MILLER         | CLERK        | 7782 | 1982-01-23      | 1300.00  | NULL      | 10     |
+-----+-----+-----+-----+-----+-----+-----+-----+
18 rows in set (0.00 sec)
```

insert row in emp with empno 100

```
mysql> INSERT INTO EMP VALUES (100,'Benjamin','CLERK',7902,'2010-09-24',800,NULL,20);
Query OK, 1 row affected (0.00 sec)
```

insert row in emp with empno 101

```
mysql> INSERT INTO EMP VALUES (101,'Michael','SALESMAN',7698,'1980-02-22',1600,NULL,10);
Query OK, 1 row affected (0.00 sec)
```

insert row in emp with empno 102


```
mysql> INSERT INTO EMP VALUES (102,'Oliver','MANAGER',7839,'1981-02-02',1250,NULL,30);
Query OK, 1 row affected (0.00 sec)
```

add savepoint A

```
mysql> SAVEPOINT A;
Query OK, 0 rows affected (0.00 sec)
```

insert row in emp with empno 103

```
mysql> INSERT INTO EMP VALUES (103,'William','ANALYST',7566,'1981-04-28',2850,NULL,20);
Query OK, 1 row affected (0.00 sec)
```

insert row in emp with empno 104

```
mysql> INSERT INTO EMP VALUES (104,'Daniel','CLERK',7788,'1980-09-01',2450,NULL,10);
Query OK, 1 row affected (0.00 sec)
```

insert row in emp with empno 105

```
mysql> INSERT INTO EMP VALUES (105,'Henry','SALESMAN',7782,'1981-05-09',3000,NULL,30);
Query OK, 1 row affected (0.00 sec)
```

add savepoint B

```
mysql> SAVEPOINT B;
Query OK, 0 rows affected (0.00 sec)
```

delete emp with empno 100

```
mysql> DELETE FROM EMP WHERE empno=100;
Query OK, 1 row affected (0.00 sec)
```

delete emp with emp no 104

```
mysql> DELETE FROM EMP WHERE empno=104;
Query OK, 1 row affected (0.00 sec)
```

rollback upto savepoint B

```
mysql> ROLLBACK TO B;
Query OK, 0 rows affected (0.00 sec)
```

check what all records will appear in employee table

```
mysql> SELECT * FROM emp;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
8	uih_jhj	clerk	5670	1981-05-06	543.00	43.00	30
100	Benjamin	CLERK	7902	2010-09-24	800.00	NULL	20
101	Michael	SALESMAN	7698	1980-02-22	1600.00	NULL	10
102	Oliver	MANAGER	7839	1981-02-02	1250.00	NULL	30
103	William	ANALYST	7566	1981-04-28	2850.00	NULL	20
104	Daniel	CLERK	7788	1980-09-01	2450.00	NULL	10
105	Henry	SALESMAN	7782	1981-05-09	3000.00	NULL	30
329	Nilima	CLERK	211	2006-05-06	12345.00	1.00	30
345	Ganesh	SALESMAN	235	2008-07-12	19876.00	3.00	30
367	Pankaj	MANAGER	242	2010-09-24	12847.00	5.00	30
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

```
24 rows in set (0.00 sec)
```

rollback upto A

```
mysql> ROLLBACK TO A;
Query OK, 0 rows affected (0.00 sec)
```

check what all records will appear in employee table

```
mysql> SELECT * FROM emp;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
8	uih_jhj	clerk	5670	1981-05-06	543.00	43.00	30
100	Benjamin	CLERK	7902	2010-09-24	800.00	NULL	20
101	Michael	SALESMAN	7698	1980-02-22	1600.00	NULL	10
102	Oliver	MANAGER	7839	1981-02-02	1250.00	NULL	30
329	Nilima	CLERK	211	2006-05-06	12345.00	1.00	30
345	Ganesh	SALESMAN	235	2008-07-12	19876.00	3.00	30
367	Pankaj	MANAGER	242	2010-09-24	12847.00	5.00	30
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

21 rows in set (0.00 sec)

commit all changes

```
mysql> COMMIT;
```

```
Query OK, 0 rows affected (0.02 sec)
```

check what all records will appear in employee table

```
mysql> SELECT * FROM emp;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
8	uih_jhj	clerk	5670	1981-05-06	543.00	43.00	30
100	Benjamin	CLERK	7902	2010-09-24	800.00	NULL	20
101	Michael	SALESMAN	7698	1980-02-22	1600.00	NULL	10
102	Oliver	MANAGER	7839	1981-02-02	1250.00	NULL	30
329	Nilima	CLERK	211	2006-05-06	12345.00	1.00	30
345	Ganesh	SALESMAN	235	2008-07-12	19876.00	3.00	30
367	Pankaj	MANAGER	242	2010-09-24	12847.00	5.00	30
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

21 rows in set (0.00 sec)

check whether you can roll back the contents.

```
mysql> ROLLBACK;
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT * FROM emp;
+-----+-----+-----+-----+-----+-----+-----+-----+
| EMPNO | ENAME   | JOB      | MGR  | HIREDATE | SAL      | COMM   | DEPTNO |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 8      | uih_jhj | clerk    | 5670 | 1981-05-06 | 543.00   | 43.00  | 30     |
| 100    | Benjamin | CLERK    | 7902 | 2010-09-24 | 800.00   | NULL   | 20     |
| 101    | Michael | SALESMAN | 7698 | 1980-02-22 | 1600.00  | NULL   | 10     |
| 102    | Oliver  | MANAGER  | 7839 | 1981-02-02 | 1250.00  | NULL   | 30     |
| 329    | Nilima  | CLERK    | 211  | 2006-05-06 | 12345.00 | 1.00   | 30     |
| 345    | Ganesh  | SALESMAN | 235  | 2008-07-12 | 19876.00 | 3.00   | 30     |
| 367    | Pankaj  | MANAGER  | 242  | 2010-09-24 | 12847.00 | 5.00   | 30     |
| 7369   | SMITH   | CLERK    | 7902 | 1980-12-17 | 800.00   | NULL   | 20     |
| 7499   | ALLEN   | SALESMAN | 7698 | 1981-02-20 | 1600.00  | 300.00 | 30     |
| 7521   | WARD    | SALESMAN | 7698 | 1981-02-22 | 1250.00  | 500.00 | 30     |
| 7566   | JONES   | MANAGER  | 7839 | 1981-04-02 | 2975.00  | NULL   | 20     |
| 7654   | MARTIN  | SALESMAN | 7698 | 1981-09-28 | 1250.00  | 1400.00 | 30     |
| 7698   | BLAKE   | MANAGER  | 7839 | 1981-05-01 | 2850.00  | NULL   | 30     |
| 7782   | CLARK   | MANAGER  | 7839 | 1981-06-09 | 2450.00  | NULL   | 10     |
| 7788   | SCOTT   | ANALYST  | 7566 | 1982-12-09 | 3000.00  | NULL   | 20     |
| 7839   | KING    | PRESIDENT | NULL | 1981-11-17 | 5000.00  | NULL   | 10     |
| 7844   | TURNER  | SALESMAN | 7698 | 1981-09-08 | 1500.00  | 0.00   | 30     |
| 7876   | ADAMS   | CLERK    | 7788 | 1983-01-12 | 1100.00  | NULL   | 20     |
| 7900   | JAMES   | CLERK    | 7698 | 1981-12-03 | 950.00   | NULL   | 30     |
| 7902   | FORD    | ANALYST  | 7566 | 1981-12-03 | 3000.00  | NULL   | 20     |
| 7934   | MILLER  | CLERK    | 7782 | 1982-01-23 | 1300.00  | NULL   | 10     |
+-----+-----+-----+-----+-----+-----+-----+-----+
21 rows in set (0.00 sec)
```

14. create a procedure getMin(deptno,minsal) to find minimum salary of given table.

```
mysql> delimiter //
mysql> CREATE PROCEDURE getMin(IN edn INT, OUT minsal DECIMAL(10,2))
-> BEGIN
->     SELECT MIN(sal) INTO minsal
->     FROM emp
->     WHERE deptno=edn;
-> END//
Query OK, 0 rows affected (0.02 sec)

mysql> delimiter ;
mysql> CALL getMin(10, @ms);
Query OK, 1 row affected (0.00 sec)

mysql> SELECT @ms AS 'Minimum Salary';
+-----+
| Minimum Salary |
+-----+
| 1300.00 |
+-----+
1 row in set (0.00 sec)
```