

QUESTION NO 04 [CHEATS DBMS]

Q.4 Design Employee database as shown below

Empid	Ename	Dept	date_of_joi n	Salar y
1	sunil	Marketing	1-jan	5000 0
2	supriya	Manager	3-jan	8000 0
3	sonia	Accounts	4-jan	2000 0
4	suraj	Sales	5-jan	3400 0
5	priya	IT_Sector	8-mar	6000 0
6	viren	Governm ent	2-mar	1200 0

Emp_details

Empid	Education	Marks
1	MTech	80
2	PhD	79
3	BE	78

Evaluate any 5 Queries on above DB

- 1)Find names of employee starting with letter s and end with a
- 2)Find names of employee whose names begin with s and followed by exactly four character
- 3)Find name of employee having salary between 10000 to 30000
- 4)Cretae index named as idx_emp using field empid
- 5)Find avg salary of all employees
- 6)Find avg marks of each employee ,along with the name of employee

ANSWER :-

```
mysql> show databases;
```

```
+-----+
| Database      |
+-----+
| assi10        |
| cheat3        |
| information_schema |
| mysql         |
| performance_schema |
| student       |
| sys           |
+-----+
7 rows in set (0.00 sec)
```

```
mysql> create database cheat4;
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> use cheat4;
```

```
Database changed
```

```
mysql> create table employee(Empid int ,Ename varchar(20),dept varchar(20),date_of_join
varchar(20),salary int);
```

```
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> insert into employee values(1,"sunil","marketing","1-jan",50000);
```

```
Query OK, 1 row affected (0.07 sec)
```

```
mysql> insert into employee values(2,"supriya","manager","3-jan",80000);
```

```
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into employee values(3,"sonia","accounts","4-jan",20000);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into employee values(4,"suraj","sales","5-jan",34000);
```

```
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into employee values(5,"priya","IT_sector","8-mar",60000);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into employee values(6,"viren","government","2-mar",12000);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from employee;
```

```
+-----+-----+-----+-----+-----+
| Empid | Ename  | dept   | date_of_join | salary |
+-----+-----+-----+-----+-----+
```

```

+-----+-----+-----+-----+
| 1 | sunil | marketing | 1-jan | 50000 |
| 2 | supriya | manager | 3-jan | 80000 |
| 3 | sonia | accounts | 4-jan | 20000 |
| 4 | suraj | sales | 5-jan | 34000 |
| 5 | priya | IT_sector | 8-mar | 60000 |
| 6 | viren | government | 2-mar | 12000 |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)

```

mysql> desc employee;

```

+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+
| Empid      | int       | YES  |     | NULL    |       |
| Ename      | varchar(20) | YES  |     | NULL    |       |
| dept       | varchar(20) | YES  |     | NULL    |       |
| date_of_join | varchar(20) | YES  |     | NULL    |       |
| salary     | int       | YES  |     | NULL    |       |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

mysql> create table Emp_details(Empid int,Education varchar(20),marks int);
Query OK, 0 rows affected (0.11 sec)

mysql> insert into Emp_details values(1,"Mtech",80);
Query OK, 1 row affected (0.01 sec)

mysql> insert into Emp_details values(2,"phD",79);
Query OK, 1 row affected (0.07 sec)

mysql> insert into Emp_details values(3,"BE",78);
Query OK, 1 row affected (0.01 sec)

mysql> desc Emp_details;

```

+-----+-----+-----+-----+
| Field    | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+
| Empid    | int       | YES  |     | NULL    |       |
| Education | varchar(20) | YES  |     | NULL    |       |
| marks    | int       | YES  |     | NULL    |       |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

```

mysql> select * from Emp_details;

```

+-----+-----+-----+
| Empid | Education | marks |
+-----+-----+-----+
| 1 | Mtech | 80 |

```

2	phD	79
3	BE	78

3 rows in set (0.00 sec)

```
mysql> SELECT Ename FROM employee WHERE Ename LIKE "s%a";
```

Ename
supriya
sonia

2 rows in set (0.00 sec)

```
mysql> show databases;
```

Database
ass10
cheat3
information_schema
mysql
performance_schema
student
sys

7 rows in set (0.00 sec)

```
mysql> create database cheat4;
```

Query OK, 1 row affected (0.01 sec)

```
mysql> use cheat4;
```

Database changed

```
mysql> create table employee(Empid int ,Ename varchar(20),dept varchar(20),date_of_join
varchar(20),salary int);
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> insert into employee values(1,"sunil","marketing","1-jan",50000);
```

Query OK, 1 row affected (0.07 sec)

```
mysql> insert into employee values(2,"supriya","manager","3-jan",80000);
```

Query OK, 1 row affected (0.02 sec)

```
mysql> insert into employee values(3,"sonia","accounts","4-jan",20000);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into employee values(4,"suraj","sales","5-jan",34000);
```

Query OK, 1 row affected (0.06 sec)

```
mysql> insert into employee values(5,"priya","IT_sector","8-mar",60000);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into employee values(6,"viren","government","2-mar",12000);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from employee;
```

Empid	Ename	dept	date_of_join	salary
1	sunil	marketing	1-jan	50000
2	supriya	manager	3-jan	80000
3	sonia	accounts	4-jan	20000
4	suraj	sales	5-jan	34000
5	priya	IT_sector	8-mar	60000
6	viren	government	2-mar	12000

6 rows in set (0.00 sec)

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
Empid	int	YES		NULL	
Ename	varchar(20)	YES		NULL	
dept	varchar(20)	YES		NULL	
date_of_join	varchar(20)	YES		NULL	
salary	int	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> create table Emp_details(Empid int,Education varchar(20),marks int);
Query OK, 0 rows affected (0.11 sec)
```

```
mysql> insert into Emp_details values(1,"Mtech",80);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into Emp_details values(2,"pHD",79);
Query OK, 1 row affected (0.07 sec)
```

```
mysql> insert into Emp_details values(3,"BE",78);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> desc Emp_details;
```

Field	Type	Null	Key	Default	Extra
Empid	int	YES		NULL	
Education	varchar(20)	YES		NULL	
marks	int	YES		NULL	

```
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select * from Emp_details;
```

```
+-----+-----+
| Empid | Education | marks |
+-----+-----+
| 1 | Mtech | 80 |
| 2 | PhD | 79 |
| 3 | BE | 78 |
+-----+-----+
```

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

```
mysql> SELECT Ename FROM employee WHERE Ename LIKE "s%a";
```

```
+-----+
| Ename |
+-----+
| supriya |
| sonia |
+-----+
```

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

```
mysql> SELECT Ename FROM employee WHERE Ename LIKE "s----";
```

```
Empty set (0.00 sec)
```

```
mysql> SELECT Ename FROM employee WHERE Ename LIKE "s_____";
```

```
+-----+
| Ename |
+-----+
| sunil |
| sonia |
| suraj |
+-----+
```

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

```
mysql> SELECT Ename FROM employee WHERE salary BETWEEN 10000 AND 30000;
```

```
+-----+
| Ename |
+-----+
| sonia |
| viren |
+-----+
```

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

```
mysql> CREATE INDEX idx_emp ON employee(Empid);
```

```
Query OK, 0 rows affected (0.10 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT AVG(salary) AS AVG_SALARY FROM employee;
```

```

+-----+
| AVG_SALARY |
+-----+
| 42666.6667 |
+-----+
1 row in set (0.00 sec)

```

```

mysql> SELECT e.Ename,AVG(d.marks) AS Average_marks
-> FROM employee e
-> JOIN Emp_details d ON e.Empid=d.Empid
-> GROUP BY e.Empid,e.Ename;

```

```

+-----+-----+
| Ename | Average_marks |
+-----+-----+
| sunil | 80.0000 |
| supriya | 79.0000 |
| sonia | 78.0000 |
+-----+-----+
3 rows in set (0.00 sec)

```

```
mysql>
```

```

mysql> SELECT Ename FROM employee WHERE Ename LIKE "s----";
Empty set (0.00 sec)

```

```
mysql> SELECT Ename FROM employee WHERE Ename LIKE "s_____";
```

```

+-----+
| Ename |
+-----+
| sunil |
| sonia |
| suraj |
+-----+
3 rows in set (0.00 sec)

```

```
mysql> SELECT Ename FROM employee WHERE salary BETWEEN 10000 AND 30000;
```

```

+-----+
| Ename |
+-----+
| sonia |
| viren |
+-----+
2 rows in set (0.00 sec)

```

```
mysql> CREATE INDEX idx_emp ON employee(Empid);
```

```

Query OK, 0 rows affected (0.10 sec)
Records: 0 Duplicates: 0 Warnings: 0

```

```
mysql> SELECT AVG(salary) AS AVG_SALARY FROM employee;
```

```
+-----+
| AVG_SALARY |
+-----+
| 42666.6667 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT e.Ename,AVG(d.marks) AS Average_marks
-> FROM employee e
-> JOIN Emp_details d ON e.Empid=d.Empid
-> GROUP BY e.Empid,e.Ename;
```

```
+-----+-----+
| Ename | Average_marks |
+-----+-----+
| sunil | 80.0000 |
| supriya | 79.0000 |
| sonia | 78.0000 |
+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql>
```