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F7

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Answers are implemented by me on my sql command line client-

First I am pasting entire images of what I have coded and in last I am going to past entire code which I have written for all answers –

MySQL 8.0 Command Line Client

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| db                 |
| girrafe            |
| information_schema |
| mydb               |
| mysql              |
| performance_schema |
| sakila             |
| sys                |
| world              |
+--------------------+
9 rows in set (0.00 sec)

mysql> create database EEA;
Query OK, 1 row affected (0.05 sec)

mysql> use EEA;
Database changed
mysql> CREATE TABLE Candidate(
    -> Application integer,
    -> Application_date date,
    -> Name varchar(20),
    -> Designation varchar(20),
    -> hire_date date,
    -> Employer varchar(20),
    -> Paypackage Integer);
Query OK, 0 rows affected (0.08 sec)

mysql>
mysql> CREATE TABLE PersonalInformation(
    -> first_name varchar(20),
    -> city varchar(20),
    -> state varchar(20),
    -> Zip_code integer,
    -> Phone Integer);
Query OK, 0 rows affected (0.08 sec)

mysql>
```

```
mysql>
mysql> Alter table candidate add primary key(Application);
Query OK, 0 rows affected (0.08 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> Alter table personalinformation add primary key(city,zip_code);
Query OK, 0 rows affected (0.09 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE personalinformation MODIFY phone integer NOT NULL;
Query OK, 0 rows affected (0.07 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> insert into candidate values(1,'2004-12-02',"Nitn chaudhary","Developer",'2020-01-01','Google',10700);
Query OK, 1 row affected (0.05 sec)

mysql> insert into candidate values(2,'2000-12-02',"Marycom","Developer",'2020-08-01','Amazon',100000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into candidate values(3,'2000-10-08',"Maeran","Analyst",'2020-08-10','Meta',100000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into candidate values(4,'2000-12-02',"Soj","Developer",'2020-08-10','ABC pharma',10000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into candidate values(5,'2004-10-08',"Manoj","Analyst",'2021-08-10','SDE',15000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into candidate values(6,'2006-12-22',"Murli","Enterprice",'2020-04-03','ABC pharma',60000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into candidate values(7,'2000-11-30',"Saeran","Developer",'2020-01-05','ABC pharma',80000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into candidate values(8,'2000-12-02',"tiejo kaur","Enterprise",'2020-08-10','ABC pharma',10000);
Query OK, 1 row affected (0.01 sec)
```

MySQL 8.0 Command Line Client

```
mysql>
mysql> insert into personalinformation values("Nitin","Noida","india",25001,6398766);
Query OK, 1 row affected (0.01 sec)

mysql> insert into personalinformation values("Nin","Noida","india",25701,639345);
Query OK, 1 row affected (0.01 sec)

mysql> insert into personalinformation values("Nfhin","Noida","india",25881,636735);
Query OK, 1 row affected (0.01 sec)

mysql> insert into personalinformation values("Nifhhn","Noida","india",25901,356829);
Query OK, 1 row affected (0.01 sec)

mysql> insert into personalinformation values("randlf","Noida","india",25401,639829);
Query OK, 1 row affected (0.01 sec)

mysql> insert into personalinformation values("Nfdgjkd","Noida","india",25031,676829);
Query OK, 1 row affected (0.01 sec)

mysql> insert into personalinformation values("Nifgh","Noida","india",25041,639829);
Query OK, 1 row affected (0.01 sec)

mysql> insert into personalinformation values("tin","Noida","india",25071,639839);
Query OK, 1 row affected (0.01 sec)

mysql> insert into personalinformation values("fghn","Noida","india",25039,636829);
Query OK, 1 row affected (0.01 sec)

mysql> insert into personalinformation values("uioun","Noida","india",26001,639829);
Query OK, 1 row affected (0.01 sec)

mysql> insert into personalinformation values("drgn","Noida","india",25891,376829);
Query OK, 1 row affected (0.01 sec)

mysql> insert into personalinformation values("aman","maryland","japan",25031,632829);
Query OK, 1 row affected (0.01 sec)

mysql> insert into personalinformation values("Nitn","marylan","europe",25031,649821);
Query OK, 1 row affected (0.01 sec)

mysql> insert into personalinformation values("Azino kaur","maryland","Newyork",25001,656837);
```

```
mysql> insert into personalinformation values("Amita kaur","","Newyork",25001,893829);
Query OK, 1 row affected (0.01 sec)

mysql> insert into personalinformation values("kaurina ora","","Newyork",25831,373829);
Query OK, 1 row affected (0.05 sec)

mysql> select * from candidate;
+-------------+------------------+-----------------+------------+------------+------------+------------+
| Application | Application_date | Name            | Designation| hire_date  | Employer   | Paypackage |
+-------------+------------------+-----------------+------------+------------+------------+------------+
|           1 | 2004-12-02       | Nitn chaudhary  | Developer  | 2020-01-01 | Google     |      10700 |
|           2 | 2000-12-02       | Marycom         | Developer  | 2020-08-01 | Amazon     |     100000 |
|           3 | 2000-10-08       | Maeran          | Analyst    | 2020-08-10 | Meta       |     100000 |
|           4 | 2000-12-02       | Soj             | Developer  | 2020-08-10 | ABC pharma |      10000 |
|           5 | 2004-10-08       | Manoj           | Analyst    | 2021-08-10 | SDE        |      15000 |
|           6 | 2006-12-22       | Murli           | Enterprice | 2020-04-03 | ABC pharma |      60000 |
|           7 | 2000-11-30       | Saeran          | Developer  | 2020-01-05 | ABC pharma |      80000 |
|           8 | 2000-12-02       | tiejo kaur      | Enterprise | 2020-08-10 | ABC pharma |      10000 |
+-------------+------------------+-----------------+------------+------------+------------+------------+
8 rows in set (0.00 sec)

mysql> select * from personalinformation;
+-------------+----------+---------+----------+---------+
| first_name  | city     | state   | Zip_code | phone   |
+-------------+----------+---------+----------+---------+
| Amita kaur  |          | Newyork |    25001 |  893829 |
| kaurina ora |          | Newyork |    25831 |  373829 |
| Nitn        | marylan  | europe  |    25031 |  649821 |
| Azino kaur  | maryland | Newyork |    25001 |  656837 |
| aman        | maryland | japan   |    25031 |  632829 |
| Nitin       | Noida    | india   |    25001 | 6398766 |
| Nfdgjkd     | Noida    | india   |    25031 |  676829 |
| fghn        | Noida    | india   |    25039 |  636829 |
| Nifgh       | Noida    | india   |    25041 |  639829 |
| tin         | Noida    | india   |    25071 |  639839 |
| randlf      | Noida    | india   |    25401 |  639829 |
| Nin         | Noida    | india   |    25701 |  639345 |
| Nfhin       | Noida    | india   |    25881 |  636735 |
| drgn        | Noida    | india   |    25891 |  376829 |
| Nifhhn      | Noida    | india   |    25901 |  356829 |
+-------------+----------+---------+----------+---------+
```

```
mysql> UPDATE personalinformation SET zip_code = REPLACE(zip_code,25001,25011) WHERE zip_code=25001;
Query OK, 3 rows affected (0.06 sec)
Rows matched: 3  Changed: 3  Warnings: 0

mysql> select * from personal informatoin;
ERROR 1146 (42S02): Table 'eea.personal' doesn't exist
mysql> select * from personalinformatoin;
ERROR 1146 (42S02): Table 'eea.personalinformatoin' doesn't exist
mysql> select * from personalinformation;
+-------------+----------+---------+----------+---------+
| first_name  | city     | state   | Zip_code | phone   |
+-------------+----------+---------+----------+---------+
| Amita kaur  |          | Newyork |    25011 |  893829 |
| kaurina ora |          | Newyork |    25831 |  373829 |
| Nitn        | marylan  | europe  |    25031 |  649821 |
| Azino kaur  | maryland | Newyork |    25011 |  656837 |
| aman        | maryland | japan   |    25031 |  632829 |
| Nitin       | Noida    | india   |    25011 | 6398766 |
| Nfdgjkd     | Noida    | india   |    25031 |  676829 |
| fghn        | Noida    | india   |    25039 |  636829 |
| Nifgh       | Noida    | india   |    25041 |  639829 |
| tin         | Noida    | india   |    25071 |  639839 |
| randlf      | Noida    | india   |    25401 |  639829 |
| Nin         | Noida    | india   |    25701 |  639345 |
| Nfhin       | Noida    | india   |    25881 |  636735 |
| drgn        | Noida    | india   |    25891 |  376829 |
| Nifhhn      | Noida    | india   |    25901 |  356829 |
| uioun       | Noida    | india   |    26001 |  639829 |
+-------------+----------+---------+----------+---------+
16 rows in set (0.00 sec)

mysql>
```

```
mysql> DELETE from personalinformation where state='maryland';
Query OK, 0 rows affected (0.00 sec)

mysql> select * from personalinformation;
+-------------+----------+----------+----------+---------+
| first_name  | city     | state    | Zip_code | phone   |
+-------------+----------+----------+----------+---------+
| Amita kaur  |          | Newyork  |    25011 |  893829 |
| kaurina ora |          | Newyork  |    25831 |  373829 |
| Nitn        | marylan  | europe   |    25031 |  649821 |
| Azino kaur  | maryland | Newyork  |    25011 |  656837 |
| aman        | maryland | japan    |    25031 |  632829 |
| Nitin       | Noida    | india    |    25011 | 6398766 |
| Nfdgjkd     | Noida    | india    |    25031 |  676829 |
| fghn        | Noida    | india    |    25039 |  636829 |
| Nifgh       | Noida    | india    |    25041 |  639829 |
| tin         | Noida    | india    |    25071 |  639839 |
| randlf      | Noida    | india    |    25401 |  639829 |
| Nin         | Noida    | india    |    25701 |  639345 |
| Nfhin       | Noida    | india    |    25881 |  636735 |
| drgn        | Noida    | india    |    25891 |  376829 |
| Nifhhn      | Noida    | india    |    25901 |  356829 |
| uioun       | Noida    | india    |    26001 |  639829 |
+-------------+----------+----------+----------+---------+
16 rows in set (0.00 sec)

mysql>
```

```
mysql> alter table candidate add CTC integer;
Query OK, 0 rows affected (0.08 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> describe candidate;
+------------------+-------------+------+-----+---------+-------+
| Field            | Type        | Null | Key | Default | Extra |
+------------------+-------------+------+-----+---------+-------+
| Application      | int         | NO   | PRI | NULL    |       |
| Application_date | date        | YES  |     | NULL    |       |
| Name             | varchar(20) | YES  |     | NULL    |       |
| Designation      | varchar(20) | YES  |     | NULL    |       |
| hire_date        | date        | YES  |     | NULL    |       |
| Employer         | varchar(20) | YES  |     | NULL    |       |
| Paypackage       | int         | YES  |     | NULL    |       |
| CTC              | int         | YES  |     | NULL    |       |
+------------------+-------------+------+-----+---------+-------+
8 rows in set (0.04 sec)

mysql> select name from candidate where name like 'MA%';
+---------+
| name    |
+---------+
| Marycom |
| Maeran  |
| Manoj   |
+---------+
3 rows in set (0.04 sec)

mysql>
```

```
mysql> select * from candidate;
+-------------+------------------+---------------+------------+------------+-------------+------------+------+
| Application | Application_date | Name          | Designation | hire_date  | Employer    | Paypackage | CTC  |
+-------------+------------------+---------------+------------+------------+-------------+------------+------+
|           1 | 2004-12-02       | Nitn chaudhary | Developer  | 2020-01-01 | Google      |      10700 | NULL |
|           2 | 2000-12-02       | Marycom       | Developer   | 2020-08-01 | Amazon      |     100000 | NULL |
|           3 | 2000-10-08       | Maeran        | Analyst     | 2020-08-10 | Meta        |     100000 | NULL |
|           4 | 2000-12-02       | Soj           | Developer   | 2020-08-10 | ABC pharma  |      10000 | NULL |
|           5 | 2004-10-08       | Manoj         | Analyst     | 2021-08-10 | SDE         |      15000 | NULL |
|           6 | 2006-12-22       | Murli         | Enterprice  | 2020-04-03 | ABC pharma  |      60000 | NULL |
|           7 | 2000-11-30       | Saeran        | Developer   | 2020-01-05 | ABC pharma  |      80000 | NULL |
|           8 | 2000-12-02       | tiejo kaur    | Enterprice  | 2020-08-10 | ABC pharma  |      10000 | NULL |
+-------------+------------------+---------------+------------+------------+-------------+------------+------+
8 rows in set (0.00 sec)

mysql> select count(*) from candidate where hire_date like '2020-08%';
+----------+
| count(*) |
+----------+
|        4 |
+----------+
1 row in set (0.00 sec)

mysql>
```

```
mysql> select name,employer,paypackage from candidate where designation in ('Developer','Analyst') and paypackage not in (4500,10000,15
+----------------+------------+------------+
| name           | employer   | paypackage |
+----------------+------------+------------+
| Nitn chaudhary | Google     |      10700 |
| Marycom        | Amazon     |     100000 |
| Maeran         | Meta       |     100000 |
| Saeran         | ABC pharma |      80000 |
+----------------+------------+------------+
4 rows in set (0.00 sec)

mysql> select name from candidate where name like '__e%';
+------------+
| name       |
+------------+
| Maeran     |
| Saeran     |
| tiejo kaur |
+------------+
3 rows in set (0.00 sec)

mysql> select name from candidate where employer ='ABC pharma' and paypackage in (60000,80000);
+--------+
| name   |
+--------+
| Murli  |
| Saeran |
+--------+
2 rows in set (0.00 sec)

mysql>  select * from candidate where designation like 'Enterpri%' order by designation;
+-------------+------------------+------------+------------+------------+------------+------------+------+
| Application | Application_date | Name       | Designation | hire_date  | Employer   | Paypackage | CTC  |
+-------------+------------------+------------+------------+------------+------------+------------+------+
|           6 | 2006-12-22       | Murli      | Enterprice  | 2020-04-03 | ABC pharma |      60000 | NULL |
|           8 | 2000-12-02       | tiejo kaur | Enterprice  | 2020-08-10 | ABC pharma |      10000 | NULL |
+-------------+------------------+------------+------------+------------+------------+------------+------+
2 rows in set (0.00 sec)

mysql>  select employer from candidate;
+------------+
```

```
mysql>  select employer from candidate;
+------------+
| employer   |
+------------+
| Google     |
| Amazon     |
| Meta       |
| ABC pharma |
| SDE        |
| ABC pharma |
| ABC pharma |
| ABC pharma |
+------------+
8 rows in set (0.00 sec)

mysql> select state,count(*) from personalinformation group by state;
+---------+----------+
| state   | count(*) |
+---------+----------+
| Newyork |        3 |
| europe  |        1 |
| japan   |        1 |
| india   |       11 |
+---------+----------+
4 rows in set (0.00 sec)

mysql> select state,count(state) from personalinformation group by state having count(state)>10;
+-------+--------------+
| state | count(state) |
+-------+--------------+
| india |           11 |
+-------+--------------+
1 row in set (0.00 sec)

mysql> select name from candidate where name like '_____' and employer<>'NULL';
+-------+
| name  |
+-------+
| Manoj |
| Murli |
+-------+
```

```
1 row in set (0.00 sec)

mysql> select name from candidate where name like '_____' and employer<>'NULL';
+-------+
| name  |
+-------+
| Manoj |
| Murli |
+-------+
2 rows in set (0.00 sec)

mysql> select name from candidate where paypackage>=ALL(select paypackage from candidate);
+---------+
| name    |
+---------+
| Marycom |
| Maeran  |
+---------+
2 rows in set (0.00 sec)

mysql> select employer from candidate where hire_date like '2020-01%' and paypackage>50000;
+------------+
| employer   |
+------------+
| ABC pharma |
+------------+
1 row in set (0.00 sec)

mysql> select first_name as name from personalinformation where state='newyork' and first_name like '%kaur%';
+-------------+
| name        |
+-------------+
| Amita kaur  |
| kaurina ora |
| Azino kaur  |
+-------------+
3 rows in set (0.00 sec)

mysql>
```

All content which I write in mysql command line client-

```
create database EEA;

use EEA;

CREATE TABLE Candidate(

Application integer,

Application_date date,

Name varchar(20),

Designation varchar(20),

hire_date date,

Employer varchar(20),

Paypackage Integer);


CREATE TABLE PersonalInformation(

first_name varchar(20),

city varchar(20),

state varchar(20),

Zip_code integer,

Phone Integer);

Alter table candidate add primary key(Application);

Alter table personalinformation add primary key(city,zip_code);

ALTER TABLE personalinformation MODIFY phone integer NOT NULL;

Alter table candidate add constraint pkg check('package'>0);
```

```sql
insert into candidate values(1,'2004-12-02',"Nitn chaudhary","Developer",'2020-01-01','Google',10700);

insert into candidate values(2,'2000-12-02',"Marycom","Developer",'2020-08-01','Amazon',100000);

insert into candidate values(3,'2000-10-08',"Maeran","Analyst",'2020-08-10','Meta',100000);

insert into candidate values(4,'2000-12-02',"Soj","Developer",'2020-08-10','ABC pharma',10000);

insert into candidate values(5,'2004-10-08',"Manoj","Analyst",'2021-08-10','SDE',15000);

insert into candidate values(6,'2006-12-22',"Murli","Enterprice",'2020-04-03','ABC pharma',60000);

insert into candidate values(7,'2000-11-30',"Saeran","Developer",'2020-01-05','ABC pharma',80000);

insert into candidate values(8,'2000-12-02',"tiejo kaur","Enterprise",'2020-08-10','ABC pharma',10000);

insert into personalinformation values("Nitin","Noida","india",25001,6398766);

insert into personalinformation values("Nin","Noida","india",25701,639345);

insert into personalinformation values("Nfhin","Noida","india",25881,636735);

insert into personalinformation values("Nifhhn","Noida","india",25901,356829);

insert into personalinformation values("randlf","Noida","india",25401,639829);
```

```sql
insert into personalinformation
values("Nfdgjkd","Noida","india",25031,676829);

insert into personalinformation
values("Nifgh","Noida","india",25041,639829);

insert into personalinformation values("tin","Noida","india",25071,639839);

insert into personalinformation
values("fghn","Noida","india",25039,636829);

insert into personalinformation
values("uioun","Noida","india",26001,639829);

insert into personalinformation
values("drgn","Noida","india",25891,376829);

insert into personalinformation
values("aman","maryland","japan",25031,632829);

insert into personalinformation
values("Nitn","marylan","europe",25031,649821);

insert into personalinformation values("Azino
kaur","maryland","Newyork",25001,656837);

insert into personalinformation values("Amita
kaur","","Newyork",25001,893829);

insert into personalinformation values("kaurina
ora","","Newyork",25831,373829);


UPDATE personalinformation SET zip_code =
REPLACE(zip_code,25001,25011) WHERE zip_code=25001;


DELETE from personalinformation where state='maryland';


alter table candidate add CTC integer;


select name from candidate where name like 'MA%';
```

```sql
select count(*) from candidate where hire_date like '2020-08%';


select name,employer,paypackage from candidate where designation in
('Developer','Analyst') and paypackage not in (4500,10000,15000);


select name from candidate where name like '__e%';


select name from candidate where employer ='ABC pharma' and paypackage
in (60000,80000);


select * from candidate where designation like 'Enterpri%' order by
designation;


select employer from candidate;

select state,count(*) from personalinformation group by state;


select state,count(state) from personalinformation group by state having
count(state)>10;


select name from candidate where name like '_____' and employer<>'NULL';
```

select name from candidate where paypackage>=ALL(select paypackage from candidate);

select employer from candidate where hire_date like '2020-01%' and paypackage>50000;

select first_name as name from personalinformation where state='newyork' and first_name like '%kaur%';

This last query was not executed by me as I am not aware about how to perform operations on dates so I have commented out it.

-- select name from candidate where (Application_date-Hire_date)<All(select (Application_date-Hire_date from candidate));