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DIC – C ROLL NO-203

PRACTICAL NAME-SEQUENCE & INDEX

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MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 107
Server version: 8.0.31 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| aditya   |
| ashrut   |
| crm      |
| demo     |
| famer    |
| farmer   |
| farmer9  |
| ganesh   |
| information_schema |
| mysql    |
| performance_schema |
| prathmesh |
| shubham  |
| sys      |
| university |
| university_akash |
| university_ashrut |
| university_ganesh |
| university_gayatri |
| university_shrishail |
| university_shubhamsawant |
+-----+

mysql> use yogita;
Database changed
mysql> create table employee(emp_id int not null,emp_name varchar(20),salary int,city varchar(20),state varchar(20));
ERROR 1050 (42S01): Table 'employee' already exists
mysql> create table employee1(emp_id int not null,emp_name varchar(20),salary int,city varchar(20),state varchar(20));
Query OK, 0 rows affected (0.02 sec)

mysql> desc employee1;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| emp_id | int | NO | | NULL | |
| emp_name | varchar(20) | YES | | NULL | |
| salary | int | YES | | NULL | |
| city | varchar(20) | YES | | NULL | |
| state | varchar(20) | YES | | NULL | |
+-----+
5 rows in set (0.00 sec)

mysql> insert into employee1 values(101,'yogita',20000,'pune','maharashtra');
Query OK, 1 row affected (0.07 sec)

mysql> insert into employee1 values(102,'sanika',30000,'chandigad','gujrat');
Query OK, 1 row affected (0.07 sec)

mysql> insert into employee1 values(103,'aishu',40000,'noida','up');
Query OK, 1 row affected (0.08 sec)

mysql> insert into employee1 values(104,'sujit',20000,'indore','mp');
Query OK, 1 row affected (0.07 sec)

mysql> insert into employee1 values(105,'sujit',25000,'bangalore','karnatka');
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mysql> insert into employee1 values(106,'sejal',35000,'tripura','asam');
Query OK, 1 row affected (0.07 sec)

mysql> select*from employee;
+-----+-----+-----+-----+-----+
| EMP_ID | emp_name | salary | city | state |
+-----+-----+-----+-----+-----+
| 101 | sujata | 20000 | pune | maharashtra |
| 102 | sanket | 30000 | jaipur | rajasthan |
| 103 | amit | 35000 | noida | up |
| 104 | sanika | 40000 | bhopal | mp |
| 105 | mayuri | 50000 | raichur | kerala |
| 106 | mayuri | 60000 | chandigad | gujrat |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select*from employee1;
+-----+-----+-----+-----+-----+
| emp_id | emp_name | salary | city | state |
+-----+-----+-----+-----+-----+
| 101 | yogita | 20000 | pune | maharashtra |
| 102 | sanika | 30000 | chandigad | gujrat |
| 103 | aishu | 40000 | noida | up |
| 104 | sujit | 20000 | indore | mp |
| 105 | sujit | 25000 | banglore | karnatka |
| 106 | sejal | 35000 | tripura | asam |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> CREATE INDEX index_city ON employee(emp_state);
ERROR 1072 (42000): Key column 'emp_state' doesn't exist in table
mysql> CREATE INDEX index_state ON employee(emp_state);
ERROR 1072 (42000): Key column 'emp_state' doesn't exist in table
mysql> CREATE INDEX index_state ON employee(state);
Query OK, 0 rows affected (0.09 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| EMP_ID | int | YES | MUL | NULL | |
| emp_name | varchar(10) | YES | | NULL | |
| salary | int | YES | | NULL | |
| city | varchar(20) | YES | MUL | NULL | |
| state | varchar(30) | YES | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> CREATE INDEX index_state ON employee(state);
ERROR 1061 (42000): Duplicate key name 'index_state'
mysql> CREATE INDEX index_state ON employee1(state);
Query OK, 0 rows affected (0.11 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| EMP_ID | int | YES | MUL | NULL | |
| emp_name | varchar(10) | YES | | NULL | |
| salary | int | YES | | NULL | |
| city | varchar(20) | YES | MUL | NULL | |
| state | varchar(30) | YES | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> CREATE INDEX index_city ON employee(city,state);
ERROR 1061 (42000): Duplicate key name 'index_city'
mysql> CREATE INDEX city ON employee(city,state);
Query OK, 0 rows affected (0.11 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| EMP_ID | int | YES | MUL | NULL | |
| emp_name | varchar(10) | YES | | NULL | |
| salary | int | YES | | NULL | |
| city | varchar(20) | YES | MUL | NULL | |
| state | varchar(30) | YES | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> CREATE INDEX id ON employee(emp_id);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'INDEX id ON employee(emp_id)' at line 1
mysql> CREATE INDEX id ON employee(emp_id);
Query OK, 0 rows affected, 1 warning (0.11 sec)
Records: 0 Duplicates: 0 Warnings: 1

mysql> desc employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| EMP_ID | int | YES | MUL | NULL | |
| emp_name | varchar(10) | YES | | NULL | |
| salary | int | YES | | NULL | |
| city | varchar(20) | YES | MUL | NULL | |
| state | varchar(30) | YES | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> show index from employee;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| employee | YES | index_id | 1 | EMP_ID | A | 6 | NULL | NULL | YES | BTREE | | |
| employee | YES | index_state | 1 | state | A | 6 | NULL | NULL | YES | BTREE | | |
| employee | YES | index_city | 1 | city | A | 6 | NULL | NULL | YES | BTREE | | |
| employee | YES | city | 1 | city | A | 6 | NULL | NULL | YES | BTREE | | |
| employee | YES | city | 2 | state | A | 6 | NULL | NULL | YES | BTREE | | |
| employee | YES | id | 1 | EMP_ID | A | 6 | NULL | NULL | YES | BTREE | | |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> drop index city_state ON employee;
ERROR 1091 (42000): Can't DROP 'city_state'; check that column/key exists
mysql> drop index city_state ON employee;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'index city_state ON employee' at line 1
mysql> drop index emp_id_state on employee;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'index emp_id_state on employee' at line 1
mysql> drop index index_city state ON employee;
ERROR 1091 (42000): Can't DROP 'index_city state'; check that column/key exists
mysql> drop index index emp_id state on employee;
ERROR 1091 (42000): Can't DROP 'index emp_id state'; check that column/key exists
mysql> drop index index_city state ^Cemployee;
mysql> drop index index_city state on employee;
ERROR 1091 (42000): Can't DROP 'index_city state'; check that column/key exists
mysql> drop index index city on employee;
Query OK, 0 rows affected (0.08 sec)
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Select MySQL 8.0 Command Line Client

mysql> show index from employee;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| employee | YES | NULL | 1 | index_id | A | 6 | NULL | NULL | YES | BTREE | | |
| employee | YES | NULL | 1 | index_state | A | 6 | NULL | NULL | YES | BTREE | | |
| employee | YES | NULL | 1 | city | A | 6 | NULL | NULL | YES | BTREE | | |
| employee | YES | NULL | 1 | city | A | 6 | NULL | NULL | YES | BTREE | | |
| employee | YES | NULL | 1 | id | A | 6 | NULL | NULL | YES | BTREE | | |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> create table student(id int,name varchar(20),city varchar(10));
Query OK, 0 rows affected (0.02 sec)

mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | int | YES | | NULL | |
| name | varchar(20) | YES | | NULL | |
| city | varchar(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> insert into values('1','yogita','kolhapur')
-> insert into values('1','yogita','kolhapur');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'val

Select MySQL 8.0 Command Line Client

mysql> select*from student;
+-----+-----+-----+
| id | name | city |
+-----+-----+-----+
| 1 | yogita | kolhapur |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql> alter table student modify id in primary key;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'in
primary key' at line 1
mysql> alter table student modify id int primary key;
Query OK, 0 rows affected (0.13 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | int | NO | PRI | NULL | |
| name | varchar(20) | YES | | NULL | |
| city | varchar(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> alter table student modify id int auto_increment;
Query OK, 1 row affected (0.03 sec)
Records: 1 Duplicates: 0 Warnings: 0

mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | int | NO | PRI | NULL | auto_increment |
| name | varchar(20) | YES | | NULL | |
| city | varchar(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
Select MySQL 8.0 Command Line Client

mysql> insert into student(name,city)values('yogita','kolhapur');
Query OK, 1 row affected (0.07 sec)

mysql> insert into student(name,city)values('sumit','pune');
Query OK, 1 row affected (0.07 sec)

mysql> insert into student(name,city)values('sujit','sangali');
Query OK, 1 row affected (0.07 sec)

mysql> insert into student(name,city)values('akshay','satara');
Query OK, 1 row affected (0.07 sec)

mysql> insert into student(name,city)values('akshayani','kolhapur');
Query OK, 1 row affected (0.07 sec)

mysql> insert into student(name,city)values('komal','karad');
Query OK, 1 row affected (0.01 sec)

mysql> insert into student(name,city)values('karuna','solapur');
Query OK, 1 row affected (0.07 sec)

mysql> select*from student;
+----+-----+-----+
| id | name  | city  |
+----+-----+-----+
| 1  | yogita | kolhapur |
| 2  | yogita | kolhapur |
| 3  | sumit  | pune    |
| 4  | sujit  | sangali |
| 5  | akshay | satara  |
| 6  | akshayani | kolhapur |
| 7  | komal  | karad   |
| 8  | karuna | solapur |
+----+-----+-----+
8 rows in set (0.00 sec)

mysql>
```