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| 1. **Employee(Emp\_No,Emp\_Name,Designation,City,Salary,Zipcode,County) (INDEX)** |

mysql> tee /home/unix/Ass4.txt;

mysql> create database STUDENT\_A11;

Query OK, 1 row affected (0.00 sec)

mysql> use STUDENT\_A11;

Database changed

mysql> create database EMPLOYEE2\_A11;

Query OK, 1 row affected (0.00 sec)

mysql> use EMPLOYEE2\_A11;

Database changed

mysql> create table Employee(Emp\_No varchar (10), Emp\_Name varchar (20), Designation varchar (20), City varchar (20), Salary int, Zipcode int, Country varchar (20));

Query OK, 0 rows affected (0.09 sec)

mysql> desc Employee;

+-------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------+-------------+------+-----+---------+-------+

| Emp\_No | varchar(10) | YES | | NULL | |

| Emp\_Name | varchar(20) | YES | | NULL | |

| Designation | varchar(20) | YES | | NULL | |

| City | varchar(20) | YES | | NULL | |

| Salary | int(11) | YES | | NULL | |

| Zipcode | int(11) | YES | | NULL | |

| Country | varchar(20) | YES | | NULL | |

+-------------+-------------+------+-----+---------+-------+

7 rows in set (0.01 sec)

mysql> insert into Employee values(E01,"Seema","Coder","Mumbai",55000,022402,"India");

ERROR 1054 (42S22): Unknown column 'E01' in 'field list'

mysql> insert into Employee values("E01","Seema","Coder","Mumbai",55000,022402,"India");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Employee values("E02","Rita","Coder","Pune",60000,022403,"India");

Query OK, 1 row affected (0.03 sec)

mysql> insert into Employee values("E03","Rakesh","Tester","Pune",45000,022403,"India");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Employee values("E04","Sunil","Analyst","Nashik",30000,022408,"India");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Employee values("E05","Sia","Analyst","Pune",25000,022403,"India");

Query OK, 1 row affected (0.04 sec)

mysql> select \* from Employee;

+--------+----------+-------------+--------+--------+---------+---------+

| Emp\_No | Emp\_Name | Designation | City | Salary | Zipcode | Country |

+--------+----------+-------------+--------+--------+---------+---------+

| E01 | Seema | Coder | Mumbai | 55000 | 22402 | India |

| E02 | Rita | Coder | Pune | 60000 | 22403 | India |

| E03 | Rakesh | Tester | Pune | 45000 | 22403 | India |

| E04 | Sunil | Analyst | Nashik | 30000 | 22408 | India |

| E05 | Sia | Analyst | Pune | 25000 | 22403 | India |

+--------+----------+-------------+--------+--------+---------+---------+

5 rows in set (0.00 sec)

mysql> drop table Employee;

Query OK, 0 rows affected (0.04 sec)

mysql> select \* from EMployee;

ERROR 1146 (42S02): Table 'EMPLOYEE2\_A11.EMployee' doesn't exist

mysql> select \* from Employee;

ERROR 1146 (42S02): Table 'EMPLOYEE2\_A11.Employee' doesn't exist

mysql> desc Employee;

ERROR 1146 (42S02): Table 'EMPLOYEE2\_A11.Employee' doesn't exist

mysql> create table Employee(Emp\_No int not null auto\_increment, Emp\_Name varchar (20),Designation varchar (20), City varchar (20), Salary int, Zipcode int, Country varchar (20));

ERROR 1075 (42000): Incorrect table definition; there can be only one auto column and it must be defined as a key

mysql> create table Employee(Emp\_No int not null auto\_increment, Emp\_Name varchar (20),Designation varchar (20), City varchar (20), Salary int, Zipcode int, Country varchar (20), primary key(Emp\_No));

Query OK, 0 rows affected (0.07 sec)

mysql> desc Employee;

+-------------+-------------+------+-----+---------+----------------+

| Field | Type | Null | Key | Default | Extra |

+-------------+-------------+------+-----+---------+----------------+

| Emp\_No | int(11) | NO | PRI | NULL | auto\_increment |

| Emp\_Name | varchar(20) | YES | | NULL | |

| Designation | varchar(20) | YES | | NULL | |

| City | varchar(20) | YES | | NULL | |

| Salary | int(11) | YES | | NULL | |

| Zipcode | int(11) | YES | | NULL | |

| Country | varchar(20) | YES | | NULL | |

+-------------+-------------+------+-----+---------+----------------+

7 rows in set (0.00 sec)

mysql> insert into Employee values("Seema","Coder", "Mumbai", 50000, 422009, "India");

ERROR 1136 (21S01): Column count doesn't match value count at row 1

mysql> insert into Employee(Emp\_Name, Designation, City, Salary, Zipcode, Country) values("Seema","Coder", "Mumbai", 50000, 422009, "India");

Query OK, 1 row affected (0.03 sec)

mysql> select \* from Employee;

+--------+----------+-------------+--------+--------+---------+---------+

| Emp\_No | Emp\_Name | Designation | City | Salary | Zipcode | Country |

+--------+----------+-------------+--------+--------+---------+---------+

| 1 | Seema | Coder | Mumbai | 50000 | 422009 | India |

+--------+----------+-------------+--------+--------+---------+---------+

1 row in set (0.00 sec)

mysql> insert into Employee(Emp\_Name, Designation, City, Salary, Zipcode, Country) values("Sia","Tester", "Nashik", 35000, 422005, "India");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Employee(Emp\_Name, Designation, City, Salary, Zipcode, Country) values("Rakesh","Coder", "Pune", 55000, 422002, "India");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Employee(Emp\_Name, Designation, City, Salary, Zipcode, Country) values("Sam","Analyst", "Mumbai", 40000, 422009, "India");

Query OK, 1 row affected (0.04 sec)

mysql> insert into Employee(Emp\_Name, Designation, City, Salary, Zipcode, Country) values("Preet","Analyst", "Pune", 30000, 422002, "India");

Query OK, 1 row affected (0.03 sec)

mysql> select \* from Employee;

+--------+----------+-------------+--------+--------+---------+---------+

| Emp\_No | Emp\_Name | Designation | City | Salary | Zipcode | Country |

+--------+----------+-------------+--------+--------+---------+---------+

| 1 | Seema | Coder | Mumbai | 50000 | 422009 | India |

| 2 | Sia | Tester | Nashik | 35000 | 422005 | India |

| 3 | Rakesh | Coder | Pune | 55000 | 422002 | India |

| 4 | Sam | Analyst | Mumbai | 40000 | 422009 | India |

| 5 | Preet | Analyst | Pune | 30000 | 422002 | India |

+--------+----------+-------------+--------+--------+---------+---------+

5 rows in set (0.00 sec)

mysql> create index i1 on Employee(Designation);

Query OK, 0 rows affected (0.14 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from Employee where Designation like "Coder";

+--------+----------+-------------+--------+--------+---------+---------+

| Emp\_No | Emp\_Name | Designation | City | Salary | Zipcode | Country |

+--------+----------+-------------+--------+--------+---------+---------+

| 1 | Seema | Coder | Mumbai | 50000 | 422009 | India |

| 3 | Rakesh | Coder | Pune | 55000 | 422002 | India |

+--------+----------+-------------+--------+--------+---------+---------+

2 rows in set (0.00 sec)

mysql> drop index i1 on Employee;

Query OK, 0 rows affected (0.10 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from Employee where Designation like "Coder";

+--------+----------+-------------+--------+--------+---------+---------+

| Emp\_No | Emp\_Name | Designation | City | Salary | Zipcode | Country |

+--------+----------+-------------+--------+--------+---------+---------+

| 1 | Seema | Coder | Mumbai | 50000 | 422009 | India |

| 3 | Rakesh | Coder | Pune | 55000 | 422002 | India |

+--------+----------+-------------+--------+--------+---------+---------+

2 rows in set (0.00 sec)

mysql> show indexes from Employee;

+----------+------------+----------+--------------+-------------+-----------+------------| Table | Non\_unique | Key\_name | Seq\_in\_index | Column\_name | Collation | Cardinality | Sub\_part | Packed | Null | Index\_type | Comment | Index\_comment |

+----------+------------+----------+--------------+-------------+-----------+------------| Employee | 0 | PRIMARY | 1 | Emp\_No | A | 2 | NULL | NULL | | BTREE | | |

+----------+------------+----------+--------------+-------------+-----------+------------1 row in set (0.00 sec)

mysql> show indexes from Employee;

+----------+------------+----------+--------------+-------------+-----------+------------

| Table | Non\_unique | Key\_name | Seq\_in\_index | Column\_name | Collation | Cardinality | Sub\_part | Packed | Null | Index\_type | Comment | Index\_comment |

+----------+------------+----------+--------------+-------------+-----------+------------| Employee | 0 | PRIMARY | 1 | Emp\_No | A | 2 | NULL | NULL | | BTREE | | |

+----------+------------+----------+--------------+-------------+-----------+------------

1 row in set (0.00 sec)

mysql> create index i1 on Employee(Designation);

Query OK, 0 rows affected (0.13 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> show indexes from Employee;

+----------+------------+----------+--------------+-------------+-----------+------------

| Table | Non\_unique | Key\_name | Seq\_in\_index | Column\_name | Collation | Cardinality | Sub\_part | Packed | Null | Index\_type | Comment | Index\_comment |

+----------+------------+----------+--------------+-------------+-----------+------------

| Employee | 0 | PRIMARY | 1 | Emp\_No | A | 5 | NULL | NULL | | BTREE | | |

| Employee | 1 | i1 | 1 | Designation | A | 5 | NULL | NULL | YES | BTREE | | |

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