**mysql> /\*CREATING TABLE USING CONSTRAINTS\*/**

mysql>

mysql> **CREATE TABLE Zoo(ZooId int NOT NULL UNIQUE,Name varchar(50),District varchar(50),Contact\_No. int,Animal\_Population int CHECK(Animal\_Population>=1), Visitors\_per\_Month int);**

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 '. int,Animal\_Population int CHECK(Animal\_Population>=1), Visitors\_per\_Month int)' at line 1

**mysql> CREATE TABLE Zoo(ZooId int NOT NULL UNIQUE,Name varchar(50),District varchar(50),Contact\_No int,Animal\_Population int CHECK(Animal\_Population>=1), Visitors\_per\_Month int);**

Query OK, 0 rows affected (0.12 sec)

**mysql> desc Zoo;**

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

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

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

| ZooId | int | NO | PRI | NULL | |

| Name | varchar(50) | YES | | NULL | |

| District | varchar(50) | YES | | NULL | |

| Contact\_No | int | YES | | NULL | |

| Animal\_Population | int | YES | | NULL | |

| Visitors\_per\_Month | int | YES | | NULL | |

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

6 rows in set (0.05 sec)

**mysql> ALTER table Zoo add State varchar(50);**

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> desc Zoo;**

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

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

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

| ZooId | int | NO | PRI | NULL | |

| Name | varchar(50) | YES | | NULL | |

| District | varchar(50) | YES | | NULL | |

| Contact\_No | int | YES | | NULL | |

| Animal\_Population | int | YES | | NULL | |

| Visitors\_per\_Month | int | YES | | NULL | |

| State | varchar(50) | YES | | NULL | |

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

7 rows in set (0.03 sec)

**mysql> ALTER TABLE Zoo MODIFY State varchar(50) AFTER Name;**

Query OK, 0 rows affected (0.11 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> desc Zoo;**

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

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

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

| ZooId | int | NO | PRI | NULL | |

| Name | varchar(50) | YES | | NULL | |

| State | varchar(50) | YES | | NULL | |

| District | varchar(50) | YES | | NULL | |

| Contact\_No | int | YES | | NULL | |

| Animal\_Population | int | YES | | NULL | |

| Visitors\_per\_Month | int | YES | | NULL | |

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

7 rows in set (0.01 sec)

**mysql> ALTER TABLE Zoo MODIFY Name varchar(50) UNIQUE;**

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> ALTER TABLE Zoo MODIFY Name varchar(50) UNIQUE;**

Query OK, 0 rows affected, 1 warning (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 1

**mysql> desc Zoo;**

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

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

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

| ZooId | int | NO | PRI | NULL | |

| Name | varchar(50) | YES | UNI | NULL | |

| State | varchar(50) | YES | | NULL | |

| District | varchar(50) | YES | | NULL | |

| Contact\_No | int | YES | | NULL | |

| Animal\_Population | int | YES | | NULL | |

| Visitors\_per\_Month | int | YES | | NULL | |

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

7 rows in set (0.03 sec)

**mysql> ALTER TABLE Zoo MODIFY Name varchar(50) NOT NULL;**

Query OK, 0 rows affected (0.09 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> desc Zoo;**

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

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

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

| ZooId | int | NO | PRI | NULL | |

| Name | varchar(50) | NO | UNI | NULL | |

| State | varchar(50) | YES | | NULL | |

| District | varchar(50) | YES | | NULL | |

| Contact\_No | int | YES | | NULL | |

| Animal\_Population | int | YES | | NULL | |

| Visitors\_per\_Month | int | YES | | NULL | |

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

7 rows in set (0.03 sec)

**mysql> /\*THERE CANT BE MORE THAN ONE PRIMARY KEY\*/**

**mysql> /\*AUTO INCREMENT\*/**

**mysql> ALTER TABLE Zoo MODIFY ZooId int AUTO\_INCREMENT;**

Query OK, 0 rows affected (0.22 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Zoo;

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

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

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

| ZooId | int | NO | PRI | NULL | auto\_increment |

| Name | varchar(50) | NO | UNI | NULL | |

| State | varchar(50) | YES | | NULL | |

| District | varchar(50) | YES | | NULL | |

| Contact\_No | int | YES | | NULL | |

| Animal\_Population | int | YES | | NULL | |

| Visitors\_per\_Month | int | YES | | NULL | |

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

7 rows in set (0.04 sec)

**mysql> insert into Zoo values(6174,"Alipore Zoological Gardens","West Bengal","Kolkata",03324791150,1266,3000000);**

ERROR 1264 (22003): Out of range value for column 'Contact\_No' at row 1

**mysql> ALTER TABLE Zoo MODIFY Contact\_No BigInt;**

Query OK, 0 rows affected (0.17 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> insert into Zoo values(1,"Alipore Zoological Gardens","West Bengal","Kolkata",03324791150,1266,3000000);**

Query OK, 1 row affected (0.01 sec)

**mysql> SELECT \* FROM Zoo;**

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

| ZooId | Name | State | District | Contact\_No | Animal\_Population | Visitors\_per\_Month |

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

| 6174 | Alipore Zoological Gardens | West Bengal | Kolkata | 3324791150 | 1266 | 3000000 |

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

1 row in set (0.00 sec)

**mysql> ALTER TABLE Zoo RENAME** **‎District to City;**

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 'to City' at line 1

**mysql> ALTER TABLE Zoo RENAME COLUMN District to City;**

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> ALTER TABLE Zoo RENAME COLUMN Visitors\_per\_Month to Visitors\_per\_Year;**

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> desc Zoo;**

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

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

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

| ZooId | int | NO | PRI | NULL | auto\_increment |

| Name | varchar(50) | NO | UNI | NULL | |

| State | varchar(50) | YES | | NULL | |

| City | varchar(50) | YES | | NULL | |

| Contact\_No | bigint | YES | | NULL | |

| Animal\_Population | int | YES | | NULL | |

| Visitors\_per\_Year | int | YES | | NULL | |

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

7 rows in set (0.03 sec)

**mysql> /\*CHECKING HOW AUTO INCREMENT WORKS\*/**

**mysql> insert into Zoo values("Amirthi Zoological Park","Tamil Nadu","Vellore",09789323326,174,131619);**

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

**mysql> insert into Zoo values(,"Amirthi Zoological Park","Tamil Nadu","Vellore",09789323326,174,131619);**

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 ',"Amirthi Zoological Park","Tamil Nadu","Vellore",09789323326,174,131619)' at line 1

**mysql> insert into Zoo values(null,"Amirthi Zoological Park","Tamil Nadu","Vellore",09789323326,174,131619);**

Query OK, 1 row affected (0.01 sec)

**mysql> SELECT \* FROM Zoo;**

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

| ZooId | Name | State | City | Contact\_No | Animal\_Population | Visitors\_per\_Year |

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

| 1 | Alipore Zoological Gardens | West Bengal | Kolkata | 3324791150 | 1266 | 3000000 |

| 2 | Amirthi Zoological Park | Tamil Nadu | Vellore | 9789323326 | 174 | 131619 |

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

2 rows in set (0.00 sec)

**mysql> /\*ENTRING NULL VALUE IN NOT NULL COLUMN\*/**

**mysql> insert into Zoo values(null,NULL,"Tamil Nadu","Chennai",04422751089,2644,2040000);**

ERROR 1048 (23000): Column 'Name' cannot be null

**mysql> insert into Zoo values(null,"Arignar Anna Zoological Park","Tamil Nadu","Chennai",04422751089,2644,2040000);**

Query OK, 1 row affected (0.04 sec)

**mysql> INSERT into Zoo(Name,State,City) values("Assam State Zoo-cum-Botanical Garden","Assam","Guwahati");**

Query OK, 1 row affected (0.04 sec)

**mysql> SELECT \* FROM Zoo;**

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

| ZooId | Name | State | City | Contact\_No | Animal\_Population | Visitors\_per\_Year |

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

| 1 | Alipore Zoological Gardens | West Bengal | Kolkata | 3324791150 | 1266 | 3000000 |

| 2 | Amirthi Zoological Park | Tamil Nadu | Vellore | 9789323326 | 174 | 131619 |

| 3 | Arignar Anna Zoological Park | Tamil Nadu | Chennai | 4422751089 | 2644 | 2040000 |

| 4 | Assam State Zoo-cum-Botanical Garden | Assam | Guwahati | NULL | NULL | NULL |

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

4 rows in set (0.00 sec)

**mysql> /\*ENTERING NULL VALUE IN NOT NULL COLUMN\*/**

**mysql> INSERT into Zoo(State,City) values("Assam","Guwahati");**

ERROR 1364 (HY000): Field 'Name' doesn't have a default value

**mysql> /\*ENTERING LESSER VALUE THAN CHECKED VALUE\*/**

**mysql> insert into Zoo values(null,"Bannerghatta National Park","Karnataka","Bengaluru",08029776466,0,1616130);**

ERROR 3819 (HY000): Check constraint 'zoo\_chk\_1' is violated.

**mysql> insert into Zoo values(null,"Bannerghatta National Park","Karnataka","Bengaluru",08029776466,1300,1616130);**

Query OK, 1 row affected (0.03 sec)

**mysql> /\*RE-ENTERING SAME NAME\*/**

**mysql> insert into Zoo values(null,"Bannerghatta National Park","Karnataka","Bengaluru",08029776466,1300,1616130);**

ERROR 1062 (23000): Duplicate entry 'Bannerghatta National Park' for key 'zoo.Name'

**mysql> /\*DIRECTLY CREATING PRIMARY KEY\*/**

**mysql> CREATE TABLE Feed(Genus Varchar(50),Species Varchar(50) PRIMARY KEY,Food\_Type Varchar(100));**

Query OK, 0 rows affected (0.06 sec)

**mysql> desc Feed;**

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

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

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

| Genus | varchar(50) | YES | | NULL | |

| Species | varchar(50) | NO | PRI | NULL | |

| Food\_Type | varchar(100) | YES | | NULL | |

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

3 rows in set (0.01 sec)

**mysql> /\*CREATING FORIEGN KEY\*/**

**mysql> CREATE TABLE Employee(FOREIGN KEY(ZooID) REFERENCES Zoo(ZooId), EmpId int,Name Varchar(50),Designation varchar(50),Hire\_Date date);**

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 'KEY(ZooID) REFERENCES Zoo(ZooId), EmpId int,Name Varchar(50),Designation varchar' at line 1

**mysql> CREATE TABLE Employee(FOREIGN\_KEY(ZooID) REFERENCES Zoo(ZooId), EmpId int,Name Varchar(50),Designation varchar(50),Hire\_Date date);**

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 '(ZooID) REFERENCES Zoo(ZooId), EmpId int,Name Varchar(50),Designation varchar(50' at line 1

**mysql> CREATE TABLE Employee(ZooId int, EmpId int,Name Varchar(50),Designation varchar(50),Hire\_Date date, FOREIGN\_KEY(ZooID) REFERENCES Zoo(ZooId));**

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 '(ZooID) REFERENCES Zoo(ZooId))' at line 1

**mysql> CREATE TABLE Employee(ZooId int, EmpId int,Name Varchar(50),Designation varchar(50),Hire\_Date date, FOREIGN KEY(ZooID) REFERENCES Zoo(ZooId));**

Query OK, 0 rows affected (0.10 sec)

**mysql> Desc Employee;**

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

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

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

| ZooId | int | YES | MUL | NULL | |

| EmpId | int | YES | | NULL | |

| Name | varchar(50) | YES | | NULL | |

| Designation | varchar(50) | YES | | NULL | |

| Hire\_Date | date | YES | | NULL | |

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

5 rows in set (0.04 sec)

**mysql> /\*CREATING FORIEGN KEY and PRIMARY KEY SIMULTANEOUSLY\*/**

**mysql> CREATE TABLE Visitor(ZooId int PRIMARY KEY, TicketNo int,Name Varchar(50),VisitDate date,EntryTime time, FOREIGN KEY(ZooID) REFERENCES Zoo(ZooId));**

Query OK, 0 rows affected (0.10 sec)

**mysql> Desc Visitor;**

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

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

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

| ZooId | int | NO | PRI | NULL | |

| TicketNo | int | YES | | NULL | |

| Name | varchar(50) | YES | | NULL | |

| VisitDate | date | YES | | NULL | |

| EntryTime | time | YES | | NULL | |

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

5 rows in set (0.03 sec)

**mysql> /\*ENTRING DATE\*/**

**mysql> INSERT into Employee values(1,1001,"Alex","Veterinarian",2020-04-01);**

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 '1,1001,"Alex","Veterinarian",2020-04-01)' at line 1

**mysql> INSERT into Employee values(1,1001,"Alex","Veterinarian","2020-04-01");**

Query OK, 1 row affected (0.03 sec)

**mysql> SELECT\*FROM Employee;**

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

| ZooId | EmpId | Name | Designation | Hire\_Date |

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

| 1 | 1001 | Alex | Veterinarian | 2020-04-01 |

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

1 row in set (0.00 sec)

**mysql> UPDATE Employee SET Hire\_Date = "01-04-2020" WHERE ZooId = 1;**

ERROR 1292 (22007): Incorrect date value: '01-04-2020' for column 'Hire\_Date' at row 1

**mysql> /\*YYYY-MM-DD Format of date is only allowed\*/**

**mysql> ALTER TABLE Employee MODIFY EmpID int UNIQUE;**

Query OK, 0 rows affected (0.10 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> /\*ENTERING NULL VALUE IN UNIQUE COLUMN\*/**

**mysql> INSERT into Employee values(1,Null,"Bianca","Aquarist","2018-11-15");**

Query OK, 1 row affected (0.04 sec)

mysql> SELECT\*FROM Employee;

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

| ZooId | EmpID | Name | Designation | Hire\_Date |

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

| 1 | 1001 | Alex | Veterinarian | 2020-04-01 |

| 1 | NULL | Bianca | Aquarist | 2018-11-15 |

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

2 rows in set (0.00 sec)

**mysql> /\* NULL VALUED CAN BE ADDED IN UNIQUE COLUMN\*/**

**mysql> UPDATE Employee SET EmpId = 5642 WHERE EmpId is Null;**

Query OK, 1 row affected (0.05 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql> show tables;**

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

| Tables\_in\_zoo |

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

| employee |

| feed |

| visitor |

| zoo |

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

4 rows in set (0.05 sec)

**mysql> desc Visitor;**

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

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

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

| ZooId | int | NO | PRI | NULL | |

| TicketNo | int | YES | | NULL | |

| Name | varchar(50) | YES | | NULL | |

| VisitDate | date | YES | | NULL | |

| EntryTime | time | YES | | NULL | |

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

5 rows in set (0.03 sec)

**mysql> desc Feed;**

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

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

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

| Genus | varchar(50) | YES | | NULL | |

| Species | varchar(50) | NO | PRI | NULL | |

| Food\_Type | varchar(100) | YES | | NULL | |

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

3 rows in set (0.03 sec)

**mysql> desc Employee;**

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

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

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

| ZooId | int | YES | MUL | NULL | |

| EmpID | int | YES | UNI | NULL | |

| Name | varchar(50) | YES | | NULL | |

| Designation | varchar(50) | YES | | NULL | |

| Hire\_Date | date | YES | | NULL | |

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

5 rows in set (0.00 sec)

**mysql> /\*ADDING CONSTRAINT\*/**

mysql> **ALTER TABLE Employee ADD CONSTRAINT PRIMARY KEY(EmpId)**

-> ;

Query OK, 0 rows affected (0.16 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> desc Employee;**

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

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

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

| ZooId | int | YES | MUL | NULL | |

| EmpID | int | NO | PRI | NULL | |

| Name | varchar(50) | YES | | NULL | |

| Designation | varchar(50) | YES | | NULL | |

| Hire\_Date | date | YES | | NULL | |

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

5 rows in set (0.00 sec)

**mysql> INSERT into Employee values(9,Null,"Bianca","Aquarist","2018-11-15");**

**ERROR 1048 (23000): Column 'EmpID' cannot be null**

**mysql> SELECT\*FROM Zoo;**

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

| ZooId | Name | State | City | Contact\_No | Animal\_Population | Visitors\_per\_Year |

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

| 1 | Alipore Zoological Gardens | West Bengal | Kolkata | 3324791150 | 1266 | 3000000 |

| 2 | Amirthi Zoological Park | Tamil Nadu | Vellore | 9789323326 | 174 | 131619 |

| 3 | Arignar Anna Zoological Park | Tamil Nadu | Chennai | 4422751089 | 2644 | 2040000 |

| 4 | Assam State Zoo-cum-Botanical Garden | Assam | Guwahati | 7002716702 | 895 | 450000 |

| 5 | Bannerghatta National Park | Karnataka | Bengaluru | 8029776466 | 1300 | 1616130 |

| 7 | Birsa Deer Park | Jharkhand | Ranchi | 6512480948 | 1450 | 800000 |

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

6 rows in set (0.00 sec)

**mysql> /\*FOREIGN KEY USAGE\*/**

**mysql> INSERT into Employee values(9,78543,"Sarah","General Curator","2017-01-12");**

ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`zoo`.`employee`, CONSTRAINT `employee\_ibfk\_1` FOREIGN KEY (`ZooId`) REFERENCES `zoo` (`ZooId`))

**mysql> /\*DEFAULT\*/**

**mysql> /\*ENTRING TIME\*/**

**mysql> ALTER TABLE Visitor MODIFY EntryTime time Default 9:00;**

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 ':00' at line 1

**mysql> ALTER TABLE Visitor MODIFY EntryTime time Default '9:00';**

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> desc Visitor;**

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

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

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

| ZooId | int | NO | PRI | NULL | |

| TicketNo | int | YES | | NULL | |

| Name | varchar(50) | YES | | NULL | |

| VisitDate | date | YES | | NULL | |

| EntryTime | time | YES | | 09:00:00 | |

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

5 rows in set (0.04 sec)

**mysql> /\*ALTERING/DROPPING UNIQUE CONSTRAINTS\*/**

**mysql> ALTER TABLE Visitor MODIFY TicketNo int UNIQUE;**

Query OK, 0 rows affected (0.06 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Visitor;

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

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

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

| ZooId | int | NO | PRI | NULL | |

| TicketNo | int | YES | UNI | NULL | |

| Name | varchar(50) | YES | | NULL | |

| VisitDate | date | YES | | NULL | |

| EntryTime | time | YES | | 09:00:00 | |

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

5 rows in set (0.02 sec)

**mysql> ALTER TABLE Visitor MODIFY TicketNo int NOT UNIQUE;**

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 'UNIQUE' at line 1

**mysql> ALTER TABLE Visitor DROP INDEX UNIQUE TicketNo int;**

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 'UNIQUE TicketNo int' at line 1

**mysql> ALTER TABLE Visitor DROP INDEX UNIQUE TicketNo;**

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 'UNIQUE TicketNo' at line 1

**mysql> ALTER TABLE Visitor DROP INDEX UNIQUE; TicketNo;**

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 'UNIQUE' at line 1

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 'TicketNo' at line 1

**mysql> ALTER TABLE Visitor DROP INDEX UNIQUE;**

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 'UNIQUE' at line 1

**mysql> SHOW INDEX FROM Visitor;**

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

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

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

| visitor | 0 | PRIMARY | 1 | ZooId | A | 0 | NULL | NULL | | BTREE | | | YES | NULL |

| visitor | 0 | TicketNo | 1 | TicketNo | A | 0 | NULL | NULL | YES | BTREE | | | YES | NULL |

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

2 rows in set (0.05 sec)

**mysql> ALTER TABLE Visitor DROP INDEX TicketNo;**

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> desc Visitor;**

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

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

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

| ZooId | int | NO | PRI | NULL | |

| TicketNo | int | YES | | NULL | |

| Name | varchar(50) | YES | | NULL | |

| VisitDate | date | YES | | NULL | |

| EntryTime | time | YES | | 09:00:00 | |

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

5 rows in set (0.02 sec)

**mysql> /\*ALTERING/DROPPING NOT NULL CONSTRAINTS\*/**

**mysql> ALTER TABLE Visitor MODIFY TicketNo int NOT NULL;**

Query OK, 0 rows affected (0.12 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> desc Visitor;**

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

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

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

| ZooId | int | NO | PRI | NULL | |

| TicketNo | int | NO | | NULL | |

| Name | varchar(50) | YES | | NULL | |

| VisitDate | date | YES | | NULL | |

| EntryTime | time | YES | | 09:00:00 | |

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

5 rows in set (0.00 sec)

**mysql> ALTER TABLE Visitor DROP INDEX TicketNo;**

ERROR 1091 (42000): Can't DROP 'TicketNo'; check that column/key exists

**mysql> ALTER TABLE Visitor MODIFY TicketNo int NULL;**

Query OK, 0 rows affected (0.14 sec)

Records: 0 Duplicates: 0 Warnings: 0

**Z**+-----------+-------------+------+-----+----------+-------+

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

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

| ZooId | int | NO | PRI | NULL | |

| TicketNo | int | YES | | NULL | |

| Name | varchar(50) | YES | | NULL | |

| VisitDate | date | YES | | NULL | |

| EntryTime | time | YES | | 09:00:00 | |

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

5 rows in set (0.00 sec)

**mysql> /\*ALTERING/DROPPING PRIMARY KEY CONSTRAINTS\*/**

**mysql> ALTER TABLE Visitor DROP PRIMARY KEY;**

ERROR 1553 (HY000): Cannot drop index 'PRIMARY': needed in a foreign key constraint

**mysql> ALTER TABLE Visitor DROP FOREIGN 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 '' at line 1

**mysql> ALTER TABLE Visitor DROP FOREIGN KEY ZooId;**

ERROR 1091 (42000): Can't DROP 'ZooId'; check that column/key exists

**mysql> ALTER TABLE Visitor DROP KEY FOREIGN KEY ZooId;**

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 'FOREIGN KEY ZooId' at line 1

**mysql> ALTER TABLE Visitor DROP KEY ZooId;**

ERROR 1091 (42000): Can't DROP 'ZooId'; check that column/key exists

**mysql> /\*UNABLE TO DROP PRIMARY OR FOREIGN KEY BECAUSE BOTH ARE SAME\*/**

**mysql> desc feed;**

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

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

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

| Genus | varchar(50) | YES | | NULL | |

| Species | varchar(50) | NO | PRI | NULL | |

| Food\_Type | varchar(100) | YES | | NULL | |

| ZooId | int | YES | MUL | NULL | |

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

4 rows in set (0.00 sec)

**mysql> /\*DROPPING PRIMARY KEY\*/**

**mysql> alter table feed drop primary key;**

Query OK, 0 rows affected (0.15 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> desc feed;**

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

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

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

| Genus | varchar(50) | YES | | NULL | |

| Species | varchar(50) | NO | | NULL | |

| Food\_Type | varchar(100) | YES | | NULL | |

| ZooId | int | YES | MUL | NULL | |

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

4 rows in set (0.00 sec)

**mysql> /\*DROPPING FOREIGN KEY\*/**

**mysql> show create table feed;**

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

| Table | Create Table |

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

| feed | CREATE TABLE `feed` (

`Genus` varchar(50) DEFAULT NULL,

`Species` varchar(50) NOT NULL,

`Food\_Type` varchar(100) DEFAULT NULL,

`ZooId` int DEFAULT NULL,

KEY `ZooId` (`ZooId`),

CONSTRAINT `feed\_ibfk\_1` FOREIGN KEY (`ZooId`) REFERENCES `zoo` (`ZooId`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci |

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

1 row in set (0.00 sec)

**mysql> alter table feed drop foreign key feed\_ibfk\_1;**

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> desc feed;**

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

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

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

| Genus | varchar(50) | YES | | NULL | |

| Species | varchar(50) | NO | | NULL | |

| Food\_Type | varchar(100) | YES | | NULL | |

| ZooId | int | YES | MUL | NULL | |

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

4 rows in set (0.00 sec)

**mysql> alter table feed drop key ZooId;**

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> desc feed;**

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

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

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

| Genus | varchar(50) | YES | | NULL | |

| Species | varchar(50) | NO | | NULL | |

| Food\_Type | varchar(100) | YES | | NULL | |

| ZooId | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

**mysql> notee;**