mysql> show databases;

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

| Database |

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

| dummydb |

| information\_schema |

| mysql |

| performance\_schema |

| sakila |

| sys |

| world |

| zoo |

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

8 rows in set (0.12 sec)

mysql> use zoo;

Database changed

mysql> show tables;

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

| Tables\_in\_zoo |

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

| dummy |

| employee |

| feed |

| visitor |

| zoo |

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

5 rows in set (0.02 sec)

**mysql> #INSERTION**

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 (0.06 sec)

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 (0.04 sec)

**mysql> #ALL COLUMNS**

**mysql> #SINGLE ROW**

**mysql>** **INSERT into zoo values(null,'Bondla Wildlife Sanctuary','Goa','Ponda',8923561278,3213,100000);**

Query OK, 1 row affected (0.06 sec)

**mysql> #MULTIPLE ROWS**

**mysql> INSERT into zoo values(null,'Pipli Mini Zoo','Haryana','Pipli',4677569871,345,25000),(null,'Chhatbir Zoo','Punjab','Zirakpur',5312674284,1432,125000);**

Query OK, 2 rows affected (0.04 sec)

Records: 2 Duplicates: 0 Warnings: 0

**mysql> #FEW COLUMNS IN SINGLE ROW**

**mysql>** **INSERT into zoo (Name,State,City) values('Chennai Snake Park Trust','Tamil Nadu','Chennai');**

Query OK, 1 row affected (0.03 sec)

**mysql> #FEW COLUMNS IN MULTIPLE ROWS**

**mysql>** **INSERT into zoo (Name,State,City) values('Chinkara Breeding Centre Kairu, Bhiwani','Haryana','Bahal'),('Crocodile Breeding Centre, Kurukshetra','Haryana','Bhaur Saidan');**

Query OK, 2 rows affected (0.04 sec)

Records: 2 Duplicates: 0 Warnings: 0

**mysql> #NOT NULL ERROR**

**mysql>** **INSERT into zoo values(null,null,'Goa','Ponda',8923561278,3213,100000);**

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

**mysql> #DUPLICATE ENTRY**

**mysql> INSERT into zoo values(null,'Bondla Wildlife Sanctuary','Goa','Ponda',8923561278,3213,100000);**

ERROR 1062 (23000): Duplicate entry 'Bondla Wildlife Sanctuary' for key 'zoo.Name'

**mysql> #CHECK CONSTRAINT VIOLATION**

**mysql> INSERT into zoo values(null,'Bondla Wildlife Sanctuary','Goa','Ponda',8923561278,0,100000);**

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

**mysql> #PRIMARY KEY VIOLATION**

**mysql> INSERT into zoo values(1,'Bondla Wildlife Sanctuary','Goa','Ponda',8923561278,123,100000);**

ERROR 1062 (23000): Duplicate entry '1' for key 'zoo.ZooId'

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 |

| 8 | Bondla Wildlife Sanctuary | Goa | Ponda | 8923561278 | 3213 | 100000 |

| 9 | Pipli Mini Zoo | Haryana | Pipli | 4677569871 | 345 | 25000 |

| 10 | Chhatbir Zoo | Punjab | Zirakpur | 5312674284 | 1432 | 125000 |

| 11 | Chennai Snake Park Trust | Tamil Nadu | Chennai | NULL | NULL | NULL |

| 12 | Chinkara Breeding Centre Kairu, Bhiwani | Haryana | Bahal | NULL | NULL | NULL |

| 13 | Crocodile Breeding Centre, Kurukshetra | Haryana | Bhaur Saidan | NULL | NULL | NULL |

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

12 rows in set (0.00 sec)

mysql> select \* from employee;

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

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

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

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

| 1 | 5642 | Bianca | Aquarist | 2018-11-15 |

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

2 rows in set (0.07 sec)

**mysql> #FORIEGN KEY VIOLATION**

**mysql> INSERT into Employee values(14,3455,'Ray','Zookeeper','2018-05-07');**

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> Alter Table Employee add Salary int;

Query OK, 0 rows affected (0.15 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 | |

| Salary | int | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> insert into Employee values(1,4533,'Ray','Zookeeper','2019-05-07'),(1,5446,'Stella','Conservation Biologist','2016-03-09');

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

mysql> insert into Employee values(1,4533,'Ray','Zookeeper','2019-05-07',null),(1,5446,'Stella','Conservation Biologist','2016-03-09',null);

Query OK, 2 rows affected (0.04 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> insert into Employee values(1,4862,'Norine','Curator of Exhibits','2010-08-12',null),(1,8975,'Samual','Curator of Horticulture','2010-07-01',null);

Query OK, 2 rows affected (0.03 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from employee;

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

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

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

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

| 1 | 4533 | Ray | Zookeeper | 2019-05-07 | NULL |

| 1 | 4862 | Norine | Curator of Exhibits | 2010-08-12 | NULL |

| 1 | 5446 | Stella | Conservation Biologist | 2016-03-09 | NULL |

| 1 | 5642 | Bianca | Aquarist | 2018-11-15 | NULL |

| 1 | 8975 | Samual | Curator of Horticulture | 2010-07-01 | NULL |

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

6 rows in set (0.00 sec)

mysql> insert into Employee values(2,,'','','',null);

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 ','','','',null)' at line 1

mysql> insert into Employee values(1,4643,'Josefine','Chief Operating Officer','2004-06-04',null);

Query OK, 1 row affected (0.04 sec)

mysql> insert into Employee values(1,6432,'Val','Finance Manager','2011-10-13',null);

Query OK, 1 row affected (0.03 sec)

mysql> insert into Employee values(2,6512,'Mitchel','Veterinarian','2009-10-27',null),(2,6512,'Aiden','Zookeeper','2011-10-13',null);

ERROR 1062 (23000): Duplicate entry '6512' for key 'employee.PRIMARY'

mysql> insert into Employee values(2,6512,'Mitchel','Veterinarian','2009-10-27',null),(2,3242,'Aiden','Zookeeper','2011-10-13',null);

Query OK, 2 rows affected (0.04 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from employee;

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

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

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

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

| 2 | 3242 | Aiden | Zookeeper | 2011-10-13 | NULL |

| 1 | 4533 | Ray | Zookeeper | 2019-05-07 | NULL |

| 1 | 4643 | Josefine | Chief Operating Officer | 2004-06-04 | NULL |

| 1 | 4862 | Norine | Curator of Exhibits | 2010-08-12 | NULL |

| 1 | 5446 | Stella | Conservation Biologist | 2016-03-09 | NULL |

| 1 | 5642 | Bianca | Aquarist | 2018-11-15 | NULL |

| 1 | 6432 | Val | Finance Manager | 2011-10-13 | NULL |

| 2 | 6512 | Mitchel | Veterinarian | 2009-10-27 | NULL |

| 1 | 8975 | Samual | Curator of Horticulture | 2010-07-01 | NULL |

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

10 rows in set (0.00 sec)

mysql> Alter Table Employee add Status Varchar(40);

Query OK, 0 rows affected (0.06 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> #UPDATION**

**mysql> #USING WHERE CONDITION**

**mysql> #SINGLE VALUE**

**mysql> UPDATE Employee SET Salary=125000 where EmpID=5642;**

Query OK, 1 row affected (0.04 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql> #MULTIPLE VALUES**

**mysql> UPDATE Employee SET Salary=250000, Status='On Duty' where EmpID=5446;**

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql> select \* from employee;**

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

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

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

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

| 2 | 3242 | Aiden | Zookeeper | 2011-10-13 | NULL | NULL |

| 1 | 4533 | Ray | Zookeeper | 2019-05-07 | NULL | NULL |

| 1 | 4643 | Josefine | Chief Operating Officer | 2004-06-04 | NULL | NULL |

| 1 | 4862 | Norine | Curator of Exhibits | 2010-08-12 | NULL | NULL |

| 1 | 5446 | Stella | Conservation Biologist | 2016-03-09 | 250000 | On Duty |

| 1 | 5642 | Bianca | Aquarist | 2018-11-15 | 125000 | NULL |

| 1 | 6432 | Val | Finance Manager | 2011-10-13 | NULL | NULL |

| 2 | 6512 | Mitchel | Veterinarian | 2009-10-27 | NULL | NULL |

| 1 | 8975 | Samual | Curator of Horticulture | 2010-07-01 | NULL | NULL |

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

10 rows in set (0.00 sec)

**mysql> #MULTIPLE ROWS**

**mysql> UPDATE Employee SET Salary=25000 where Designation='Zookeeper';**

Query OK, 2 rows affected (0.04 sec)

Rows matched: 2 Changed: 2 Warnings: 0

**mysql> select \* from employee;**

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

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

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

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

| 2 | 3242 | Aiden | Zookeeper | 2011-10-13 | 25000 | NULL |

| 1 | 4533 | Ray | Zookeeper | 2019-05-07 | 25000 | NULL |

| 1 | 4643 | Josefine | Chief Operating Officer | 2004-06-04 | NULL | NULL |

| 1 | 4862 | Norine | Curator of Exhibits | 2010-08-12 | NULL | NULL |

| 1 | 5446 | Stella | Conservation Biologist | 2016-03-09 | 250000 | On Duty |

| 1 | 5642 | Bianca | Aquarist | 2018-11-15 | 125000 | NULL |

| 1 | 6432 | Val | Finance Manager | 2011-10-13 | NULL | NULL |

| 2 | 6512 | Mitchel | Veterinarian | 2009-10-27 | NULL | NULL |

| 1 | 8975 | Samual | Curator of Horticulture | 2010-07-01 | NULL | NULL |

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

10 rows in set (0.03 sec)

**mysql> #WITHOUT USING WHERE CONDITION**

**mysql> #ENTIRE COULMN**

**mysql> UPDATE Employee SET Status='On Duty';**

Query OK, 9 rows affected (0.03 sec)

Rows matched: 10 Changed: 9 Warnings: 0

**mysql> select \* from employee;**

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

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

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

| 1 | 1001 | Alex | Veterinarian | 2020-04-01 | NULL | On Duty |

| 2 | 3242 | Aiden | Zookeeper | 2011-10-13 | 25000 | On Duty |

| 1 | 4533 | Ray | Zookeeper | 2019-05-07 | 25000 | On Duty |

| 1 | 4643 | Josefine | Chief Operating Officer | 2004-06-04 | NULL | On Duty |

| 1 | 4862 | Norine | Curator of Exhibits | 2010-08-12 | NULL | On Duty |

| 1 | 5446 | Stella | Conservation Biologist | 2016-03-09 | 250000 | On Duty |

| 1 | 5642 | Bianca | Aquarist | 2018-11-15 | 125000 | On Duty |

| 1 | 6432 | Val | Finance Manager | 2011-10-13 | NULL | On Duty |

| 2 | 6512 | Mitchel | Veterinarian | 2009-10-27 | NULL | On Duty |

| 1 | 8975 | Samual | Curator of Horticulture | 2010-07-01 | NULL | On Duty |

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

10 rows in set (0.00 sec)

**mysql> #NOT NULL ERROR**

**mysql> UPDATE Employee SET EmpID=Null where EmpID=5642;**

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

**mysql> #DUPLICATE ENTRY/ PRIMARY KEY VIOLATION**

**mysql> UPDATE Employee SET EmpID=1001 where EmpID=5642;**

ERROR 1062 (23000): Duplicate entry '1001' for key 'employee.PRIMARY'

**mysql> #FOREIGN KEY VIOLATION**

**mysql> UPDATE Employee SET ZooID=15 where EmpID=5642;**

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> #CHECK CONSTRAINT VIOLATION**

**mysql> UPDATE Zoo SET Animal\_Population=0 where ZooID=3;**

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

**mysql> #SELECTION**

**mysql> #ALL COLUMNS**

**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 |

| 8 | Bondla Wildlife Sanctuary | Goa | Ponda | 8923561278 | 3213 | 100000 |

| 9 | Pipli Mini Zoo | Haryana | Pipli | 4677569871 | 345 | 25000 |

| 10 | Chhatbir Zoo | Punjab | Zirakpur | 5312674284 | 1432 | 125000 |

| 11 | Chennai Snake Park Trust | Tamil Nadu | Chennai | NULL | NULL | NULL |

| 12 | Chinkara Breeding Centre Kairu, Bhiwani | Haryana | Bahal | NULL | NULL | NULL |

| 13 | Crocodile Breeding Centre, Kurukshetra | Haryana | Bhaur Saidan | NULL | NULL | NULL |

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

12 rows in set (0.00 sec)

**mysql> #USING WHERE**

**mysql> SELECT \* FROM Zoo where State='Haryana';**

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

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

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

| 9 | Pipli Mini Zoo | Haryana | Pipli | 4677569871 | 345 | 25000 |

| 12 | Chinkara Breeding Centre Kairu, Bhiwani | Haryana | Bahal | NULL | NULL | NULL |

| 13 | Crocodile Breeding Centre, Kurukshetra | Haryana | Bhaur Saidan | NULL | NULL | NULL |

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

3 rows in set (0.00 sec)

**mysql> #LIMIT**

**mysql> SELECT \* FROM Zoo limit 5;**

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

| 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 |

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

5 rows in set (0.00 sec)

**mysql> #FEW COLUMNS**

**mysql> SELECT ZooId,Name,State,City FROM Zoo;**

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

| ZooId | Name | State | City |

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

| 1 | Alipore Zoological Gardens | West Bengal | Kolkata |

| 2 | Amirthi Zoological Park | Tamil Nadu | Vellore |

| 3 | Arignar Anna Zoological Park | Tamil Nadu | Chennai |

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

| 5 | Bannerghatta National Park | Karnataka | Bengaluru |

| 7 | Birsa Deer Park | Jharkhand | Ranchi |

| 8 | Bondla Wildlife Sanctuary | Goa | Ponda |

| 9 | Pipli Mini Zoo | Haryana | Pipli |

| 10 | Chhatbir Zoo | Punjab | Zirakpur |

| 11 | Chennai Snake Park Trust | Tamil Nadu | Chennai |

| 12 | Chinkara Breeding Centre Kairu, Bhiwani | Haryana | Bahal |

| 13 | Crocodile Breeding Centre, Kurukshetra | Haryana | Bhaur Saidan |

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

12 rows in set (0.00 sec)

**mysql> #CHANGING ORDER**

**mysql> SELECT ZooId,Name,City,State FROM Zoo;**

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

| ZooId | Name | City | State |

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

| 1 | Alipore Zoological Gardens | Kolkata | West Bengal |

| 2 | Amirthi Zoological Park | Vellore | Tamil Nadu |

| 3 | Arignar Anna Zoological Park | Chennai | Tamil Nadu |

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

| 5 | Bannerghatta National Park | Bengaluru | Karnataka |

| 7 | Birsa Deer Park | Ranchi | Jharkhand |

| 8 | Bondla Wildlife Sanctuary | Ponda | Goa |

| 9 | Pipli Mini Zoo | Pipli | Haryana |

| 10 | Chhatbir Zoo | Zirakpur | Punjab |

| 11 | Chennai Snake Park Trust | Chennai | Tamil Nadu |

| 12 | Chinkara Breeding Centre Kairu, Bhiwani | Bahal | Haryana |

| 13 | Crocodile Breeding Centre, Kurukshetra | Bhaur Saidan | Haryana |

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

12 rows in set (0.00 sec)

**mysql> #DISTINCT**

**mysql> SELECT ZooId,Name,Distinct(State),City FROM Zoo;**

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 'Distinct(State),City FROM Zoo' at line 1

**mysql> SELECT Distinct(State) FROM Zoo;**

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

| State |

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

| West Bengal |

| Tamil Nadu |

| Assam |

| Karnataka |

| Jharkhand |

| Goa |

| Haryana |

| Punjab |

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

8 rows in set (0.04 sec)

**mysql> #COUNT**

**mysql> SELECT Count(\*) FROM Zoo;**

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

| Count(\*) |

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

| 12 |

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

1 row in set (0.04 sec)

**mysql> SELECT Count(Name) FROM Zoo;**

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

| Count(Name) |

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

| 12 |

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

1 row in set (0.03 sec)

**mysql> SELECT Count(Contact\_No) FROM Zoo;**

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

| Count(Contact\_No) |

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

| 9 |

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

1 row in set (0.03 sec)

**mysql> #COUNT + DISTINCT**

**mysql> SELECT Count(Distinct State) FROM Zoo;**

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

| Count(Distinct State) |

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

| 8 |

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

1 row in set (0.00 sec)

**mysql> #MIN**

**mysql> SELECT Min(Animal\_Population) FROM Zoo;**

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

| Min(Animal\_Population) |

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

| 174 |

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

1 row in set (0.03 sec)

**mysql> SELECT Min(Visitors\_per\_year) FROM Zoo;**

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

| Min(Visitors\_per\_year) |

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

| 25000 |

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

1 row in set (0.00 sec)

**mysql> #MAX**

**mysql> SELECT Max(Animal\_Population) FROM Zoo;**

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

| Max(Animal\_Population) |

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

| 3213 |

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

1 row in set (0.00 sec)

**mysql> SELECT Max(Visitors\_per\_year) FROM Zoo;**

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

| Max(Visitors\_per\_year) |

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

| 3000000 |

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

1 row in set (0.00 sec)

**mysql> #SUM**

**mysql> SELECT Sum(Animal\_Population) FROM Zoo;**

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

| Sum(Animal\_Population) |

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

| 12719 |

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

1 row in set (0.00 sec)

**mysql> SELECT Sum(Visitors\_per\_year) FROM Zoo;**

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

| Sum(Visitors\_per\_year) |

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

| 8287749 |

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

1 row in set (0.00 sec)

**mysql> #AVG**

**mysql> SELECT AVG(Animal\_Population) FROM Zoo;**

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

| AVG(Animal\_Population) |

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

| 1413.2222 |

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

1 row in set (0.00 sec)

**mysql> SELECT Avg(Visitors\_per\_year) FROM Zoo;**

**+------------------------+**

| Avg(Visitors\_per\_year) |

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

| 920861.0000 |

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

1 row in set (0.00 sec)

**mysql> #CREATING TABLE USING ‘AS’ KEYWORD FOR DELETION**

**mysql> create table dummyemp select \* from employee;**

Query OK, 10 rows affected (0.14 sec)

Records: 10 Duplicates: 0 Warnings: 0

mysql> update dummyemp set status='Off Duty' where Salary=125000;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from dummyemp;

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

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

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

| 1 | 1001 | Alex | Veterinarian | 2020-04-01 | NULL | On Duty |

| 2 | 3242 | Aiden | Zookeeper | 2011-10-13 | 25000 | On Duty |

| 1 | 4533 | Ray | Zookeeper | 2019-05-07 | 25000 | On Duty |

| 1 | 4643 | Josefine | Chief Operating Officer | 2004-06-04 | NULL | On Duty |

| 1 | 4862 | Norine | Curator of Exhibits | 2010-08-12 | NULL | On Duty |

| 1 | 5446 | Stella | Conservation Biologist | 2016-03-09 | 250000 | On Duty |

| 1 | 5642 | Bianca | Aquarist | 2018-11-15 | 125000 | Off Duty |

| 1 | 6432 | Val | Finance Manager | 2011-10-13 | NULL | On Duty |

| 2 | 6512 | Mitchel | Veterinarian | 2009-10-27 | NULL | On Duty |

| 1 | 8975 | Samual | Curator of Horticulture | 2010-07-01 | NULL | On Duty |

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

10 rows in set (0.00 sec)

**mysql> #DELETION**

**mysql> #USING WHERE CONDITION**

**mysql> #SINGLE ROW**

**mysql> DELETE from dummyemp where Designation='Veterinarian';**

Query OK, 2 rows affected (0.04 sec)

**mysql> select \* from dummyemp;**

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

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

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

| 2 | 3242 | Aiden | Zookeeper | 2011-10-13 | 25000 | On Duty |

| 1 | 4533 | Ray | Zookeeper | 2019-05-07 | 25000 | On Duty |

| 1 | 4643 | Josefine | Chief Operating Officer | 2004-06-04 | NULL | On Duty |

| 1 | 4862 | Norine | Curator of Exhibits | 2010-08-12 | NULL | On Duty |

| 1 | 5446 | Stella | Conservation Biologist | 2016-03-09 | 250000 | On Duty |

| 1 | 5642 | Bianca | Aquarist | 2018-11-15 | 125000 | Off Duty |

| 1 | 6432 | Val | Finance Manager | 2011-10-13 | NULL | On Duty |

| 1 | 8975 | Samual | Curator of Horticulture | 2010-07-01 | NULL | On Duty |

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

8 rows in set (0.03 sec)

**mysql> #MULTIPLE ROWS**

**mysql> DELETE from dummyemp where SaLARY=Null**;

Query OK, 0 rows affected (0.03 sec)

**mysql> select \* from dummyemp;**

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

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

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

| 2 | 3242 | Aiden | Zookeeper | 2011-10-13 | 25000 | On Duty |

| 1 | 4533 | Ray | Zookeeper | 2019-05-07 | 25000 | On Duty |

| 1 | 4643 | Josefine | Chief Operating Officer | 2004-06-04 | NULL | On Duty |

| 1 | 4862 | Norine | Curator of Exhibits | 2010-08-12 | NULL | On Duty |

| 1 | 5446 | Stella | Conservation Biologist | 2016-03-09 | 250000 | On Duty |

| 1 | 5642 | Bianca | Aquarist | 2018-11-15 | 125000 | Off Duty |

| 1 | 6432 | Val | Finance Manager | 2011-10-13 | NULL | On Duty |

| 1 | 8975 | Samual | Curator of Horticulture | 2010-07-01 | NULL | On Duty |

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

8 rows in set (0.00 sec)

**mysql> DELETE from dummyemp where Salary=Null;**

Query OK, 0 rows affected (0.00 sec)

**mysql> DELETE from dummyemp where Salary=NULL;**

Query OK, 0 rows affected (0.00 sec)

**mysql> select \* from dummyemp;**

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

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

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

| 2 | 3242 | Aiden | Zookeeper | 2011-10-13 | 25000 | On Duty |

| 1 | 4533 | Ray | Zookeeper | 2019-05-07 | 25000 | On Duty |

| 1 | 4643 | Josefine | Chief Operating Officer | 2004-06-04 | NULL | On Duty |

| 1 | 4862 | Norine | Curator of Exhibits | 2010-08-12 | NULL | On Duty |

| 1 | 5446 | Stella | Conservation Biologist | 2016-03-09 | 250000 | On Duty |

| 1 | 5642 | Bianca | Aquarist | 2018-11-15 | 125000 | Off Duty |

| 1 | 6432 | Val | Finance Manager | 2011-10-13 | NULL | On Duty |

| 1 | 8975 | Samual | Curator of Horticulture | 2010-07-01 | NULL | On Duty |

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

8 rows in set (0.00 sec)

**mysql> DELETE from dummyemp where Status='On Duty';**

Query OK, 7 rows affected (0.04 sec)

**mysql> select \* from dummyemp;**

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

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

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

| 1 | 5642 | Bianca | Aquarist | 2018-11-15 | 125000 | Off Duty |

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

1 row in set (0.03 sec)

**mysql> #WITHOUT USING WHERE CONDITION**

**mysql> #ALL ROWS**

**mysql> DELETE from dummyemp;**

Query OK, 1 row affected (0.03 sec)

**mysql> select \* from dummyemp;**

Empty set (0.00 sec)

**mysql> notee;**