**CODING PRACTICE – 15/06/2023**

mysql> show databases;

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

| Database |

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

| amazon\_product |

| batch14 |

| batch15 |

| blrdb |

| information\_schema |

| kgm |

| mysql |

| performance\_schema |

| sakila |

| sys |

| workbench |

| world |

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

12 rows in set (0.71 sec)

mysql> use batch14;

Database changed

mysql> show tables;

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

| Tables\_in\_batch14 |

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

| product\_det |

| stu\_marks |

| student\_info |

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

3 rows in set (0.12 sec)

mysql> create table demo\_null(id int);

Query OK, 0 rows affected (0.95 sec)

mysql> desc demo\_null;

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

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

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

| id | int | YES | | NULL | |

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

1 row in set (0.12 sec)

mysql> insert into demo\_null values(20);

Query OK, 1 row affected (0.15 sec)

mysql> insert into demo\_null values(202);

Query OK, 1 row affected (0.06 sec)

mysql> insert into demo\_null values();

Query OK, 1 row affected (0.03 sec)

mysql> select \* from demo\_null;

+------+

| id |

+------+

| 20 |

| 202 |

| NULL |

+------+

3 rows in set (0.00 sec)

mysql> create table demo\_null(id int not null);

ERROR 1050 (42S01): Table 'demo\_null' already exists

mysql> create table demo\_ntn(id int not null);

Query OK, 0 rows affected (0.13 sec)

mysql> desc demo\_ntn;

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

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

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

| id | int | NO | | NULL | |

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

1 row in set (0.00 sec)

mysql> insert into demo\_ntn values(202);

Query OK, 1 row affected (0.04 sec)

mysql> insert into demo\_ntn values(20);

Query OK, 1 row affected (0.04 sec)

mysql> insert into demo\_ntn values();

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

mysql> create table demo\_uniq(name varchar(20) unique key);

Query OK, 0 rows affected (0.41 sec)

mysql> desc demo\_uniq;

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

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

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

| name | varchar(20) | YES | UNI | NULL | |

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

1 row in set (0.08 sec)

mysql> insert into demo\_uniq("Perinparaj");

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 '"Perinparaj")' at line 1

mysql> insert into demo\_uniq values("Perinparaj");

Query OK, 1 row affected (0.08 sec)

mysql> insert into demo\_uniq values("Ram");

Query OK, 1 row affected (0.07 sec)

mysql> insert into demo\_uniq values("Elam");

Query OK, 1 row affected (0.04 sec)

mysql> insert into demo\_uniq values("");

Query OK, 1 row affected (0.03 sec)

mysql> insert into demo\_uniq values("Perinparaj");

ERROR 1062 (23000): Duplicate entry 'Perinparaj' for key 'demo\_uniq.name'

mysql> insert into demo\_uniq values("Ram");

ERROR 1062 (23000): Duplicate entry 'Ram' for key 'demo\_uniq.name'

mysql> insert into demo\_uniq values("Elam");

ERROR 1062 (23000): Duplicate entry 'Elam' for key 'demo\_uniq.name'

mysql> insert into demo\_uniq values("Subash");

Query OK, 1 row affected (0.04 sec)

mysql> select \* from demo\_uniq;

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

| name |

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

| |

| Elam |

| Perinparaj |

| Ram |

| Subash |

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

5 rows in set (0.00 sec)

mysql> insert into demo\_uniq values("");

ERROR 1062 (23000): Duplicate entry '' for key 'demo\_uniq.name'

mysql> insert into demo\_uniq values();

Query OK, 1 row affected (0.02 sec)

mysql> select \* from demo\_uniq;

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

| name |

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

| NULL |

| |

| Elam |

| Perinparaj |

| Ram |

| Subash |

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

6 rows in set (0.00 sec)

mysql> insert into demo\_uniq values();

Query OK, 1 row affected (0.04 sec)

mysql> select \* from demo\_uniq;

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

| name |

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

| NULL |

| NULL |

| |

| Elam |

| Perinparaj |

| Ram |

| Subash |

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

7 rows in set (0.00 sec)

mysql> create table emp\_det(empid int primary key,ename varchar(20),designation varchar(25),hdate date,salary double(10,2))

-> ;

Query OK, 0 rows affected, 1 warning (0.33 sec)

mysql> desc emp\_det;

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

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

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

| empid | int | NO | PRI | NULL | |

| ename | varchar(20) | YES | | NULL | |

| designation | varchar(25) | YES | | NULL | |

| hdate | date | YES | | NULL | |

| salary | double(10,2) | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> insert into emp\_det values(101,'Subash.R','FS Dev','2023-02-16',25000.50);

Query OK, 1 row affected (0.14 sec)

mysql> insert into emp\_det values(102,'Ajay.S','FE Dev','2022-04-26',22000.50),(103,'Bala','Web Dev','2022-10-24',15000.30),(104,'charles.l','AWS','2023-01-02',18999.99);

Query OK, 3 rows affected (0.07 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> insert into emp\_det values(105,'Dravid.S','Tester','2023-03-2',21000.50),(117,'Lokesh','Web Dev','2022-10-24',15000.30),(109,'Rolex','AWS','2023-01-02',18999.99);

Query OK, 3 rows affected (0.04 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> insert into emp\_det values(105,'Dravid.S','Tester','2023-03-2',21000.50),(117,'Lokesh','Web Dev','2022-10-24',15000.30),(109,'Rolex','AWS','2023-01-02',18999.99);

ERROR 1062 (23000): Duplicate entry '105' for key 'emp\_det.PRIMARY'

mysql> insert into emp\_det values();

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

mysql> select \* from emp\_det;

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

| empid | ename | designation | hdate | salary |

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

| 101 | Subash.R | FS Dev | 2023-02-16 | 25000.50 |

| 102 | Ajay.S | FE Dev | 2022-04-26 | 22000.50 |

| 103 | Bala | Web Dev | 2022-10-24 | 15000.30 |

| 104 | charles.l | AWS | 2023-01-02 | 18999.99 |

| 105 | Dravid.S | Tester | 2023-03-02 | 21000.50 |

| 109 | Rolex | AWS | 2023-01-02 | 18999.99 |

| 117 | Lokesh | Web Dev | 2022-10-24 | 15000.30 |

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

7 rows in set (0.00 sec)

mysql> select \* from emp\_det limit 2;

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

| empid | ename | designation | hdate | salary |

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

| 101 | Subash.R | FS Dev | 2023-02-16 | 25000.50 |

| 102 | Ajay.S | FE Dev | 2022-04-26 | 22000.50 |

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

2 rows in set (0.00 sec)

mysql> select \* from emp\_det limit 5;

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

| empid | ename | designation | hdate | salary |

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

| 101 | Subash.R | FS Dev | 2023-02-16 | 25000.50 |

| 102 | Ajay.S | FE Dev | 2022-04-26 | 22000.50 |

| 103 | Bala | Web Dev | 2022-10-24 | 15000.30 |

| 104 | charles.l | AWS | 2023-01-02 | 18999.99 |

| 105 | Dravid.S | Tester | 2023-03-02 | 21000.50 |

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

5 rows in set (0.00 sec)

mysql> select \* from emp\_det limit 2 offset 2;

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

| empid | ename | designation | hdate | salary |

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

| 103 | Bala | Web Dev | 2022-10-24 | 15000.30 |

| 104 | charles.l | AWS | 2023-01-02 | 18999.99 |

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

2 rows in set (0.00 sec)

mysql> select \* from emp\_det limit 4 offset 1;

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

| empid | ename | designation | hdate | salary |

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

| 102 | Ajay.S | FE Dev | 2022-04-26 | 22000.50 |

| 103 | Bala | Web Dev | 2022-10-24 | 15000.30 |

| 104 | charles.l | AWS | 2023-01-02 | 18999.99 |

| 105 | Dravid.S | Tester | 2023-03-02 | 21000.50 |

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

4 rows in set (0.00 sec)

mysql> create table Dept\_det(deptid int,dname varchar(25),location varchar(24),empid int,foreign key(empid) references emp\_det(empid));

Query OK, 0 rows affected (0.32 sec)

mysql> desc dept\_det;

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

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

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

| deptid | int | YES | | NULL | |

| dname | varchar(25) | YES | | NULL | |

| location | varchar(24) | YES | | NULL | |

| empid | int | YES | MUL | NULL | |

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

4 rows in set (0.00 sec)

mysql> select \* from emp\_det;

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

| empid | ename | designation | hdate | salary |

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

| 101 | Subash.R | FS Dev | 2023-02-16 | 25000.50 |

| 102 | Ajay.S | FE Dev | 2022-04-26 | 22000.50 |

| 103 | Bala | Web Dev | 2022-10-24 | 15000.30 |

| 104 | charles.l | AWS | 2023-01-02 | 18999.99 |

| 105 | Dravid.S | Tester | 2023-03-02 | 21000.50 |

| 109 | Rolex | AWS | 2023-01-02 | 18999.99 |

| 117 | Lokesh | Web Dev | 2022-10-24 | 15000.30 |

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

7 rows in set (0.00 sec)

mysql> insert into dept\_det values(10,'Development','Coimbatore',101);

Query OK, 1 row affected (0.07 sec)

mysql> insert into dept\_det values(12,'Front End','Chennai',102);

Query OK, 1 row affected (0.07 sec)

mysql> insert into dept\_det values(41,'Web Dev','Bangalore',103);

Query OK, 1 row affected (0.04 sec)

mysql> insert into dept\_det values(50,'Testing','Bangalore',105);

Query OK, 1 row affected (0.06 sec)

mysql> insert into dept\_det values(5,'Networking','Coimbatore',109);

Query OK, 1 row affected (0.04 sec)

mysql> insert into dept\_det values(5,'Networking','Coimbatore',150);

ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`batch14`.`dept\_det`, CONSTRAINT `dept\_det\_ibfk\_1` FOREIGN KEY (`empid`) REFERENCES `emp\_det` (`empid`))

mysql> select \* from dept\_det;

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

| deptid | dname | location | empid |

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

| 10 | Development | Coimbatore | 101 |

| 12 | Front End | Chennai | 102 |

| 41 | Web Dev | Bangalore | 103 |

| 50 | Testing | Bangalore | 105 |

| 5 | Networking | Coimbatore | 109 |

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

5 rows in set (0.00 sec)

mysql> create table bus\_det(busid int,broute varchar(20),pay double(8,2),empid int,foreign key(empid) references emp\_det(empid));

Query OK, 0 rows affected, 1 warning (0.26 sec)

mysql> drop table bus\_det;

Query OK, 0 rows affected (0.26 sec)

mysql> create table bus\_det(busid int primary key auto\_increment,broute varchar(20),pay double(8,2),empid int,foreign key(empid) references emp\_det(empid));

Query OK, 0 rows affected, 1 warning (0.74 sec)

mysql> desc bus\_det;

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

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

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

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

| broute | varchar(20) | YES | | NULL | |

| pay | double(8,2) | YES | | NULL | |

| empid | int | YES | MUL | NULL | |

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

4 rows in set (0.00 sec)

mysql> insert into bus\_det(broute,pay,empid)values('Annur',1500.00,101),('Mettupalayam',1750.00,102),('Puliyampatti',1650.00,103);

Query OK, 3 rows affected (0.03 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> insert into bus\_det(broute,pay,empid)values('OOty',4500.00,104),('Pollachi',1750.00,109),('Thirupur',2550.00,105);

Query OK, 3 rows affected (0.03 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select \* from bus\_det;

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

| busid | broute | pay | empid |

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

| 1 | Annur | 1500.00 | 101 |

| 2 | Mettupalayam | 1750.00 | 102 |

| 3 | Puliyampatti | 1650.00 | 103 |

| 4 | OOty | 4500.00 | 104 |

| 5 | Pollachi | 1750.00 | 109 |

| 6 | Thirupur | 2550.00 | 105 |

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

6 rows in set (0.00 sec)

mysql> alter table bus\_det auto\_increment = 1001;

Query OK, 0 rows affected (0.20 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> delete from bus\_det where busid = 4;

Query OK, 1 row affected (0.09 sec)

mysql> delete from bus\_det where busid = 5;

Query OK, 1 row affected (0.04 sec)

mysql> delete from bus\_det where busid = 6;

Query OK, 1 row affected (0.04 sec)

mysql> insert into bus\_det(broute,pay,empid)values('OOty',4500.00,104),('Pollachi',1750.00,109),('Thirupur',2550.00,105);

Query OK, 3 rows affected (0.04 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select \* from bus\_det;

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

| busid | broute | pay | empid |

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

| 1 | Annur | 1500.00 | 101 |

| 2 | Mettupalayam | 1750.00 | 102 |

| 3 | Puliyampatti | 1650.00 | 103 |

| 1001 | OOty | 4500.00 | 104 |

| 1002 | Pollachi | 1750.00 | 109 |

| 1003 | Thirupur | 2550.00 | 105 |

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

6 rows in set (0.00 sec)

mysql> create table car\_show(carid int primary key auto\_increment,carname varchar(25), price double(10,2) check(price>400000 and price<2500000));

Query OK, 0 rows affected, 1 warning (0.11 sec)

mysql> insert into car\_show(carname,price) values ("Suzuki",650000.00);

Query OK, 1 row affected (0.05 sec)

mysql> insert into car\_show(carname,price) values ("i10",850000.00);

Query OK, 1 row affected (0.07 sec)

mysql> insert into car\_show(carname,price) values ("Benz",240000.00);

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

mysql> insert into car\_show(carname,price) values ("Benz",200000.00);

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

mysql> insert into car\_show(carname,price) values ("Benz",200000);

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

mysql> insert into car\_show(carname,price) values ("TATA",1200000.00);

Query OK, 1 row affected (0.04 sec)

mysql> insert into car\_show(carname,price) values ("Mahindra",1800000.00);

Query OK, 1 row affected (0.04 sec)

mysql> select \* from car\_show;

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

| carid | carname | price |

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

| 1 | Suzuki | 650000.00 |

| 2 | i10 | 850000.00 |

| 3 | TATA | 1200000.00 |

| 4 | Mahindra | 1800000.00 |

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

4 rows in set (0.00 sec)

mysql> insert into car\_show(carname,price) values ("Mahindra",200000.00);

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

mysql> insert into car\_show(carname,price) values ("Mahindra",2500000.00);

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

mysql> insert into car\_show(carname,price) values ("Mahindra",2400000.00);

Query OK, 1 row affected (0.04 sec)

mysql> select \* from emp\_det;

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

| empid | ename | designation | hdate | salary |

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

| 101 | Subash.R | FS Dev | 2023-02-16 | 25000.50 |

| 102 | Ajay.S | FE Dev | 2022-04-26 | 22000.50 |

| 103 | Bala | Web Dev | 2022-10-24 | 15000.30 |

| 104 | charles.l | AWS | 2023-01-02 | 18999.99 |

| 105 | Dravid.S | Tester | 2023-03-02 | 21000.50 |

| 109 | Rolex | AWS | 2023-01-02 | 18999.99 |

| 117 | Lokesh | Web Dev | 2022-10-24 | 15000.30 |

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

7 rows in set (0.00 sec)

mysql> select adddate("2023-06-15 05:50:25", interval 31 day);

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

| adddate("2023-06-15 05:50:25", interval 31 day) |

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

| 2023-07-16 05:50:25 |

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

1 row in set (0.05 sec)

mysql> select adddate("2023-06-15 05:50:25", interval 32 week);

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

| adddate("2023-06-15 05:50:25", interval 32 week) |

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

| 2024-01-25 05:50:25 |

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

1 row in set (0.00 sec)

mysql> select adddate("2023-06-15 05:50:25", interval 30 month);

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

| adddate("2023-06-15 05:50:25", interval 30 month) |

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

| 2025-12-15 05:50:25 |

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

1 row in set (0.00 sec)

mysql> select adddate("2023-06-15", interval 30 month);

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

| adddate("2023-06-15", interval 30 month) |

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

| 2025-12-15 |

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

1 row in set (0.00 sec)

mysql> select adddate(hdate,interval 30 day) from emp\_det;

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

| adddate(hdate,interval 30 day) |

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

| 2023-03-18 |

| 2022-05-26 |

| 2022-11-23 |

| 2023-02-01 |

| 2023-04-01 |

| 2023-02-01 |

| 2022-11-23 |

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

7 rows in set (0.00 sec)

mysql> select adddate(hdate,interval 20 month) from emp\_det;

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

| adddate(hdate,interval 20 month) |

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

| 2024-10-16 |

| 2023-12-26 |

| 2024-06-24 |

| 2024-09-02 |

| 2024-11-02 |

| 2024-09-02 |

| 2024-06-24 |

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

7 rows in set (0.00 sec)

mysql> select addtime("25:30:10","30:10:10");

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

| addtime("25:30:10","30:10:10") |

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

| 55:40:20 |

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

1 row in set (0.04 sec)

mysql> select convert\_tz("2023-06-15 06:10:02","+5:30","-4:00");

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

| convert\_tz("2023-06-15 06:10:02","+5:30","-4:00") |

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

| 2023-06-14 20:40:02 |

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

1 row in set (0.04 sec)

mysql> select date\_format(hdate,"%D,%M,%Y") from emp\_det;

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

| date\_format(hdate,"%D,%M,%Y") |

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

| 16th,February,2023 |

| 26th,April,2022 |

| 24th,October,2022 |

| 2nd,January,2023 |

| 2nd,March,2023 |

| 2nd,January,2023 |

| 24th,October,2022 |

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

7 rows in set (0.03 sec)

mysql> select \*, date\_format(hdate,"%D,%M,%Y") from emp\_det;

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

| empid | ename | designation | hdate | salary | date\_format(hdate,"%D,%M,%Y") |

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

| 101 | Subash.R | FS Dev | 2023-02-16 | 25000.50 | 16th,February,2023 |

| 102 | Ajay.S | FE Dev | 2022-04-26 | 22000.50 | 26th,April,2022 |

| 103 | Bala | Web Dev | 2022-10-24 | 15000.30 | 24th,October,2022 |

| 104 | charles.l | AWS | 2023-01-02 | 18999.99 | 2nd,January,2023 |

| 105 | Dravid.S | Tester | 2023-03-02 | 21000.50 | 2nd,March,2023 |

| 109 | Rolex | AWS | 2023-01-02 | 18999.99 | 2nd,January,2023 |

| 117 | Lokesh | Web Dev | 2022-10-24 | 15000.30 | 24th,October,2022 |

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

7 rows in set (0.00 sec)

mysql> select \*, date\_format(hdate,"%D,%M,%Y,%p,%W") from emp\_det;

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

| empid | ename | designation | hdate | salary | date\_format(hdate,"%D,%M,%Y,%p,%W") |

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

| 101 | Subash.R | FS Dev | 2023-02-16 | 25000.50 | 16th,February,2023,AM,Thursday |

| 102 | Ajay.S | FE Dev | 2022-04-26 | 22000.50 | 26th,April,2022,AM,Tuesday |

| 103 | Bala | Web Dev | 2022-10-24 | 15000.30 | 24th,October,2022,AM,Monday |

| 104 | charles.l | AWS | 2023-01-02 | 18999.99 | 2nd,January,2023,AM,Monday |

| 105 | Dravid.S | Tester | 2023-03-02 | 21000.50 | 2nd,March,2023,AM,Thursday |

| 109 | Rolex | AWS | 2023-01-02 | 18999.99 | 2nd,January,2023,AM,Monday |

| 117 | Lokesh | Web Dev | 2022-10-24 | 15000.30 | 24th,October,2022,AM,Monday |

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

7 rows in set (0.00 sec)

mysql>