DBMS LAB2

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SEC: 5F

TASK1:

No screenshot is required as you are not going to execute anything. Only reasoning of whether the query would get executed or not

1. If u try to insert values without price, it shows error because in the table definition, price was set as an NOT NULL value

2.If a foreign key constraint is established between the "visits" table and the "person" table, and the cascading delete option is enabled, then when you delete a record from the "person" table, it will trigger an automatic removal of any related entries from the "visits" table.

3. When you attempt to execute the SQL statement `UPDATE person SET name = 'Krish' WHERE name = 'Abraham';`, and neither 'Abraham' nor 'Krish' exists in the "person" table, the SQL statement will execute successfully without any errors. However, it won't make any changes to the table. In this scenario, the database engine will search for rows where the "name" column equals 'Abraham' (which is not found in the table) and try to update those rows by setting the "name" column to 'Krish'. Since there are no matching rows with 'Abraham' in the "name" column, no rows will be updated. In summary, the query will run without errors, but it won't have any impact on the data within the "person" table.

TASK2:

Convert the following algebraic expression to an SQL query and find out the output

```
PES2UG21CS315>
PES2UG21CS315>SELECT f_name AS Artist_Fname, l_name AS Artist_Lname
    -> FROM (
    ->      SELECT f_name, l_name
    ->      FROM Artist
    ->      WHERE l_name = 'Naik'
    ->      UNION
    ->      SELECT f_name, l_name
    ->      FROM Artist
    ->      WHERE location <> 'Mangaluru'
    -> ) AS CombinedResults;
+--------------+---------------+
| Artist_Fname | Artist_Lname  |
+--------------+---------------+
| Darmendra    | Naik          |
| Guru         | Dev           |
| Karan        | Desai         |
| Mahesh       | Joshi         |
| Manikantan   | Murugan       |
| Jaya         | Lalitha       |
| Hema         | Malini        |
| Stev         | Garcia        |
| Lata         | paramesh      |
| Ravi         | Ragavan       |
| Mahadev      | Mani          |
+--------------+---------------+
11 rows in set (0.02 sec)

PES2UG21CS315>
```

TASK3:

Q1) As Bengaluru is growing at a very fast rate, it's attracting people from across India. The government is assisting local bodies in opening more refreshment centre. Some people want to open an art gallery with the name "Narasimha Rao Memorial Art Gallery" as he provided a place in the Jayanagr city to construct an art gallery. The local people have decided to open the gallery every morning at 9 AM, every day except Tuesday, for 8 hours per day, with an entry fee of 110 INR. They have registered the gallery at the sub-register office, and it has been assigned the ID G014.

```
PES2UG21CS315>insert into gallery(g_id,g_name,g_location,entry_fee,opening_t
ime,closing_time) values("G014","Narasimha Rao Memorial Art Gallery","Jayana
gar",110,"09:00:00","17:00:00");
Query OK, 1 row affected (0.02 sec)
```

```
PES2UG21CS315>select * from gallery;
+------+-------------------------------+---------------------+-----------+--------------+--------------+
| g_id | g_name                        | g_location          | entry_fee | opening_time | closing_time |
+------+-------------------------------+---------------------+-----------+--------------+--------------+
| G002 | Bengaluru Chitra Kala Parishat | Bengaluru          |       150 | 11:00:00     | 18:30:00     |
| G003 | Mysuru Art Haven              | Mysuru              |       120 | 10:30:00     | 18:00:00     |
| G004 | Hubli Art Center             | Hubli               |       200 | 10:00:00     | 19:30:00     |
| G005 | Belgaum Art Gallery          | Belgaum             |       110 | 12:00:00     | 17:30:00     |
| G006 | Mangaluru Art Studio         | Mangaluru           |       180 | 11:30:00     | 18:45:00     |
| G007 | Gulbarga Sculpture Park      | Gulbarga            |        85 | 09:00:00     | 16:30:00     |
| G008 | Udupi Digital Art Showcase   | Udupi               |       140 | 10:00:00     | 18:15:00     |
| G009 | Bidar Illustration Gallery   | Bidar               |       105 | 11:00:00     | 16:45:00     |
| G010 | Dharwad Printmaking Workshop | Dharwad             |       125 | 10:00:00     | 17:45:00     |
| G011 | Davangere Art Studio         | Davangere           |       135 | 11:15:00     | 18:30:00     |
| G012 | Narasimha Rao Memorial Art Gallery | Jayanagar/Bnagalore |  110 | 09:00:00     | 05:00:00     |
| G014 | Narasimha Rao Memorial Art Gallery | Jayanagar      |       110 | 09:00:00     | 17:00:00     |
+------+-------------------------------+---------------------+-----------+--------------+--------------+
12 rows in set (0.00 sec)

PES2UG21CS315>
```

Q2) A new artist named Mahesh Joshi with id 'A014'has a variety of painting styles, such as oil painting and Realism. He has recently relocated to Mysuru, the cultural capital of Karnataka, and he wishes to showcase his art in a gallery. He is currently unable to find a suitable gallery. It would be greatly appreciated if anyone could provide information about art galleries in Mysuru. If you can assist, please contact him at his number: 6734525641

```
PES2UG21CS315>insert into artist(artist_id,f_name,l_name,contact_no,location,gender) va
lues("A014","Mahesh","Joshi",6734525641,"Mysuru","M");
Query OK, 1 row affected (0.01 sec)
```

```
PES2UG21CS315>select * from artist;
+-----------+-----------+----------+------------+---------+----------+----------+------------+--------+
| artist_id | f_name    | l_name   | contact_no | ratings | username | password | location   | gender |
+-----------+-----------+----------+------------+---------+----------+----------+------------+--------+
| A001      | Guru      | Dev      | 2973234833 | NULL    | NULL     | NULL     | Bangalore  | M      |
| A002      | Karan     | Desai    | 1234567890 | NULL    | NULL     | NULL     | Magaluru   | M      |
| A003      | Mahesh    | Joshi    | 6734525641 | NULL    | NULL     | NULL     | Mysuru     | M      |
| A004      | Manikantan | Murugan | 5556755523 | NULL    | NULL     | NULL     | Bengaluru  | M      |
| A005      | Jaya      | Lalitha  | 7477877927 | NULL    | NULL     | NULL     | Mysuru     | F      |
| A006      | Hema      | Malini   | 8389288588 | NULL    | NULL     | NULL     | Belagavi   | F      |
| A007      | Stev      | Garcia   | 3331735963 | NULL    | NULL     | NULL     | Bengaluru  | M      |
| A008      | Darmendra | Naik     | 4493436447 | NULL    | NULL     | NULL     | Shivamogga | M      |
| A009      | Lata      | paramesh | 6261466769 | NULL    | NULL     | NULL     | Huballi    | F      |
| A010      | Ravi      | Ragavan  | 9793935697 | NULL    | NULL     | NULL     | Dharawada  | M      |
| A011      | Mahadev   | Mani     | 9876543210 | NULL    | NULL     | NULL     | Davangere  | M      |
| A014      | Mahesh    | Joshi    | 6734525641 | NULL    | NULL     | NULL     | Mysuru     | M      |
+-----------+-----------+----------+------------+---------+----------+----------+------------+--------+
12 rows in set (0.01 sec)
```

```
PES2UG21CS315>select * from specialization;
+-----------+----------------+
| artist_id | specialization |
+-----------+----------------+
| A002      | Painter        |
| A003      | Oil Painting   |
| A003      | Realism        |
| A004      | Painter        |
| A005      | Photographer   |
| A005      | Printmaker     |
| A006      | Digital Artist |
| A006      | Photographer   |
| A007      | Painter        |
| A008      | Illustrator    |
| A009      | Sculptor       |
| A010      | Painter        |
| A011      | Sculptor       |
+-----------+----------------+
13 rows in set (0.01 sec)

PES2UG21CS315>select * from gallery where g_location="Mysuru";
+------+------------------+------------+-----------+--------------+--------------+
| g_id | g_name           | g_location | entry_fee | opening_time | closing_time |
+------+------------------+------------+-----------+--------------+--------------+
| G003 | Mysuru Art Haven | Mysuru     |       120 | 10:30:00     | 18:00:00     |
+------+------------------+------------+-----------+--------------+--------------+
1 row in set (0.00 sec)
```

TASK4:

Q1) The AGM is unaware of their collection of antique arts, so they want to classify the arts based on the age of the arts. Take the required actions so that the AGM can determine the age of art; you can also add a column for this purpose.

```
PES2UG21CS315>alter table art add column art_age int;
Query OK, 0 rows affected (0.12 sec)
Records: 0  Duplicates: 0  Warnings: 0

PES2UG21CS315>update art set art_age=YEAR(CURRENT_DATE())-YEAR(created_date)
;
Query OK, 13 rows affected (0.01 sec)
Rows matched: 13  Changed: 13  Warnings: 0

PES2UG21CS315>select art_tittle,art_age from art;
+----------------------+---------+
| art_tittle           | art_age |
+----------------------+---------+
| Sunset at the Beach  |      28 |
| Cityscape            |      21 |
| Natural Harmony      |      33 |
| Ancient Ruins        |      18 |
| Mountain Vista       |      15 |
| Floral Elegance      |      25 |
| Forest Serenity      |       4 |
| Urban Reflections    |       6 |
| Digital Dreams       |       1 |
| Illustrated Wonders  |       2 |
| Printed Landscapes   |      28 |
| Davangere Delight    |      22 |
| Bengaluru Bliss      |       5 |
+----------------------+---------+
13 rows in set (0.00 sec)
```

Q2) The AGM has observed that there is more demand for the arts that are old, so they have decided to increase the art prices by 25% for those whose age is more than 15 years. List the eligible arts along with their new prices and old prices.

```
PES2UG21CS315>select art_id,art_tittle,art_price as old_price ,round(art_pri
ce*1.25,2) as new_price from art where art_age>=15;
+--------+----------------------+-----------+-----------+
| art_id | art_tittle           | old_price | new_price |
+--------+----------------------+-----------+-----------+
| ART001 | Sunset at the Beach  |       800 |   1000.00 |
| ART002 | Cityscape            |       700 |    875.00 |
| ART003 | Natural Harmony      |       600 |    750.00 |
| ART004 | Ancient Ruins        |      1000 |   1250.00 |
| ART005 | Mountain Vista       |       600 |    750.00 |
| ART006 | Floral Elegance      |       550 |    687.50 |
| ART011 | Printed Landscapes   |       600 |    750.00 |
| ART012 | Davangere Delight    |       750 |    937.50 |
+--------+----------------------+-----------+-----------+
8 rows in set (0.01 sec)
```

Q3) The AGM wants to check whether the non-Bengalurean galleries have the same entry fee or different entry fees. List the non-Bengalurean galleries where the entry fee is more than 100, without using logical operators. [Bengaluru]

```
PES2UG21CS315>select g_id,g_name,g_location,entry_fee from gallery where g_locat
ion<>"Bengaluru" and entry_fee>100;
+-------+------------------------------------+----------------------+-----------+
| g_id  | g_name                             | g_location           | entry_fee |
+-------+------------------------------------+----------------------+-----------+
| G003  | Mysuru Art Haven                   | Mysuru               |       120 |
| G004  | Hubli Art Center                   | Hubli                |       200 |
| G005  | Belgaum Art Gallery                | Belgaum              |       110 |
| G006  | Mangaluru Art Studio               | Mangaluru            |       180 |
| G008  | Udupi Digital Art Showcase         | Udupi                |       140 |
| G009  | Bidar Illustration Gallery         | Bidar                |       105 |
| G010  | Dharwad Printmaking Workshop       | Dharwad              |       125 |
| G011  | Davangere Art Studio               | Davangere            |       135 |
| G012  | Narasimha Rao Memorial Art Gallery | Jayanagar/Bnagalore  |       110 |
| G014  | Narasimha Rao Memorial Art Gallery | Jayanagar            |       110 |
+-------+------------------------------------+----------------------+-----------+
10 rows in set (0.00 sec)

PES2UG21CS315>
```

Q4) The AGM wants to know the arts that describe a capturing or sculpture. Give a list of arts that the AGM requires without using the 'or' condition. (Duplicate elements should be included.)

```
PES2UG21CS315>select art_id,art_tittle,art_description from art where art_description like "%capturing%" union all
 select art_id,art_tittle,art_description from art where art_description like "%sculpture%";
+--------+-----------------+-------------------------------------------------------------------------------+
| art_id | art_tittle      | art_description                                                               |
+--------+-----------------+-------------------------------------------------------------------------------+
| ART001 | Sunset at the Beach | A serene painting capturing the beauty of the sunset at a tranquil beach.    |
| ART005 | Mountain Vista  | A beautiful painting capturing the breathtaking view of mountains and valleys. |
| ART007 | Forest Serenity | A photograph capturing the serene atmosphere of a forest during dawn.        |
| ART013 | Bengaluru Bliss | A photograph capturing the blissful moments in Bengaluru.                    |
| ART003 | Natural Harmony | A sculpture that represents the harmony between nature and human creation.    |
| ART004 | Ancient Ruins   | A sculpture depicting the remnants of ancient architectural wonders.          |
+--------+-----------------+-------------------------------------------------------------------------------+
6 rows in set (0.00 sec)

PES2UG21CS315>
```

THANK YOU 😊