Part II

1.

USE landmarksdb;

SELECT

   l.LandmarkID,

   l.LandmarkName,

   l.Location,

   c.CountryName

FROM

   landmarks l

JOIN

   countries c ON l.CountryID = c.CountryID

WHERE

   c.CountryName IN ('France', 'USA');

LandmarkID	LandmarkName	Location	CountryName
1	Eiffel Tower	Paris	France
41	Louvre Museum	Paris	France
42	Notre-Dame Cathedral	Paris	France
43	Palace of Versailles	Versailles	France
59	Moulin Rouge	Paris	France
60	Arc de Triomphe	Paris	France
4	Statue of Liberty	New York	USA
47	Brooklyn Bridge	New York	USA
48	Empire State Building	New York	USA
49	Central Park	New York	USA

2.

USE landmarksdb;

SELECT

   c.CountryName,

   COUNT(l.LandmarkID) AS TotalLandmarks

FROM

   countries c

LEFT JOIN

  landmarks l ON c.CountryID = l.CountryID

GROUP BY

     c.CountryName;

CountryName	TotalLandmarks
China	8
France	6
USA	5
United Kingdom	5
Italy	4
Japan	4
Egypt	3
Ireland	3
Canada	2
Brazil	1

3.

USE landmarksdb;

SELECT

        l.LandmarkID,

        l.LandmarkName,

        l.YearEstablished,

        l.HeritageStatusID

FROM

        landmarks l

WHERE

        l.YearEstablished >1900

        AND l.HeritageStatusID IS NOT NULL;

LandmarkID	LandmarkName	YearEstablished	HeritageStatusID
5	Christ the Redeemer	1931	1
7	Sydney Opera House	1973	1
11	CN Tower	1976	1
48	Empire State Building	1931	1

4.

```sql
USE landmarksdb;

SELECT
    c.CountryName,
    c.Continent,
    COUNT(l.LandmarkID) AS TotalLandmarks,
    SUM(vg.ApproximateGroupSize) AS TotalVisitors
FROM
    countries c
JOIN
    landmarks l ON c.CountryID = l.CountryID
LEFT JOIN
    landmark_group_visits lgv ON l.LandmarkID = lgv.LandmarkID
LEFT JOIN
    visitor_groups vg ON lgv.GroupID = vg.GroupID
GROUP BY
    c.CountryName, c.Continent
HAVING
    TotalVisitors > 0
ORDER BY
    TotalVisitors DESC;
```

CountryName	Continent	TotalLandmarks	TotalVisitors
India	Asia	1	100
United Kingdom	Europe	5	60
France	Europe	6	50
Mexico	North America	1	50
USA	North America	5	40
South Africa	Africa	1	35
Italy	Europe	5	34
China	Asia	8	30
Argentina	South America	1	30
Australia	Australia	1	25

USE landmarksdb;

SELECT

  l1.LandmarkID AS Landmark1ID,

  l2.LandmarkID AS Landmark2ID,

  l1.Location

FROM

  landmarks l1

JOIN

  landmarks l2 ON l1.CountryID = l2.CountryID

      AND l1.Location = l2.Location

      AND l1.LandmarkID < l2.LandmarkID;

Landmark1ID	Landmark2ID	Location
1	41	Paris
1	42	Paris
1	59	Paris
1	60	Paris
2	44	Beijing
2	45	Beijing
2	46	Beijing
4	47	New York
4	48	New York
4	49	New York

Landmark1ID	Landmark2ID	Location
6	50	Rome
6	51	Rome
6	52	Rome
50	51	Rome
50	52	Rome
51	52	Rome

USE landmarksdb;

SELECT Continent, Season, TotalVisitors

FROM (

  SELECT c.Continent,

    CASE

      WHEN MONTH(lgv.VisitDate) IN (12, 1, 2) THEN 'Winter'

```sql
            WHEN MONTH(lgv.VisitDate) IN (3, 4, 5) THEN 'Spring'

            WHEN MONTH(lgv.VisitDate) IN (6, 7, 8) THEN 'Summer'

            WHEN MONTH(lgv.VisitDate) IN (9, 10, 11) THEN 'Fall'

        END AS Season,

        SUM(v.ApproximateGroupSize) AS TotalVisitors

    FROM landmark_group_visits lgv

    JOIN visitor_groups v ON lgv.GroupID = v.GroupID

    JOIN landmarks l ON lgv.LandmarkID = l.LandmarkID

    JOIN countries c ON l.CountryID = c.CountryID

    GROUP BY c.Continent, Season

) AS SeasonalVisits

WHERE (Continent, TotalVisitors) IN (

    SELECT Continent, MAX(TotalVisitors)

    FROM (

        SELECT c.Continent,

            CASE

                WHEN MONTH(lgv.VisitDate) IN (12, 1, 2) THEN 'Winter'

                WHEN MONTH(lgv.VisitDate) IN (3, 4, 5) THEN 'Spring'

                WHEN MONTH(lgv.VisitDate) IN (6, 7, 8) THEN 'Summer'

                WHEN MONTH(lgv.VisitDate) IN (9, 10, 11) THEN 'Fall'

            END AS Season,

            SUM(v.ApproximateGroupSize) AS TotalVisitors

        FROM landmark_group_visits lgv

        JOIN visitor_groups v ON lgv.GroupID = v.GroupID

        JOIN landmarks l ON lgv.LandmarkID = l.LandmarkID

        JOIN countries c ON l.CountryID = c.CountryID

        GROUP BY c.Continent, Season

    ) AS SeasonalData

    GROUP BY Continent
```

);

	Continent	Season	TotalVisitors
▶	Asia	Fall	118
	North America	Fall	102
	Europe	Fall	95
	Africa	Summer	45
	South America	Fall	30
	Australia	Fall	25
	Europe/Asia	Summer	12

7.

USE landmarksdb;

SELECT

  c.CountryID,

  c.CountryName,

  IFNULL(SUM(CASE

    WHEN l.Description LIKE '%citadel%' OR l.Description LIKE '%fort%' OR l.Description LIKE '%castle%'

    THEN vg.ApproximateGroupSize

    ELSE 0

  END), 0) AS Specific_Landmark_Visitors,

  IFNULL(SUM(vg.ApproximateGroupSize), 0) AS Total_Visitors,

  IFNULL(ROUND(

    (SUM(CASE

      WHEN l.Description LIKE '%citadel%' OR l.Description LIKE '%fort%' OR l.Description LIKE
'%castle%'

      THEN vg.ApproximateGroupSize

      ELSE 0

    END) / SUM(vg.ApproximateGroupSize)) * 100, 2), 0) AS Percentage_Visits

FROM

  countries c

LEFT JOIN

  landmarks l ON c.CountryID = l.CountryID

LEFT JOIN

  visitor_groups vg ON c.CountryID = vg.CountryID

GROUP BY

  c.CountryID, c.CountryName;

CountryID	CountryName	Specific_Landmark_Visitors	Total_Visitors	Percentage_Visits
4	Egypt	80	120	66.67
19	United Kingdom	56	70	80.00
3	China	40	80	50.00
2	USA	30	150	20.00
12	Canada	10	20	50.00
1	France	0	300	0.00
5	Brazil	0	15	0.00
6	Italy	0	100	0.00
7	Australia	0	100	0.00
8	India	0	20	0.00