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(1)

INSERT INTO Location

VALUES

(1,'HYDERABAD'),

(2,'CHENNAI'),

(3,'BANGALORE'),

(4,'GUWAHATI'),

(5,'MUMBAI'),

(6,'GURGAON'),

(7,'NOIDA'),

(8,'KOCHI'),

(9,'DELHI'),

(10,'PUNE');

INSERT INTO HOST

VALUES

(1,'KRISHNA','EMP101','IT',1,'9876543210'),

(2,'MAHESH','EMP102','IT',6,'9876543211'),

(3,'VENKAT','EMP103','IT',9,'9876543212'),

(4,'GAUTHAM','EMP104','IT',3,'9876543213'),

(5,'KALYAN','EMP105','IT',2,'9876543214'),

(6,'TARAK','EMP106','IT',4,'9876543215'),

(7,'RAM','EMP107','IT',5,'9876543216'),

(8,'NAVEEN','EMP108','IT',10,'9876543217'),

(9,'SIDDHU','EMP109','IT',7,'9876543218'),

(10,'CHARAN','EMP110','IT',8,'9876543219');

INSERT INTO Visitor

VALUES

(1,'MARK',1,'MPHASIS','BUSINESS MEETING','555-0201','2025-04-01',1),

(2,'ROBERT',2,'TCS','INTERVIEW','555-0202','2025-04-02',2),

(3,'STARK',3,'COGNIZANT','BUSINESS MEETING','555-0203','2025-04-03',3),

(4,'CHRIS',4,'OPEN-AI','BUSINESS MEETING','555-0204','2025-04-04',4),

(5,'ADAM',5,'META','BUSINESS MEETING','555-0205','2025-04-05',5),

(6,'ELLIS',6,'INFOSYS','BUSINESS MEETING','555-0206','2025-04-06',6),

(7,'BREWIS',7,'BARCLAYS','BUSINESS MEETING','555-0207','2025-04-07',7),

(8,'BOULT',8,'BOEING','BUSINESS MEETING','555-0208','2025-04-08',8),

(9,'JACKS',9,'MITSOGO','BUSINESS MEETING','555-0209','2025-04-09',9),

(10,'JAMIE',10,'IBM','BUSINESS MEETING','555-0210','2025-04-10',10);

(2)

SELECT \* FROM Location;

(3)

SELECT DISTINCT l.LocationName

FROM Location l

JOIN Visitor v ON l.LocationID=v.LocationID;

(4)

SELECT LocationName

FROM Location

WHERE LocationName LIKE 'S%';

(5)

SELECT COUNT(\*) AS HostCount

FROM Host;

(6)

SELECT COUNT(\*) AS HostCount

FROM Host WHERE LocationId = 1

(7)

SELECT v.VisitorID,v.Name,v.ParentCompany,v.purpose,v.MobileNumber,v.VisitingDate,v.HostID

FROM Visitor v

WHERE v.HostID=1;

(8)

SELECT VisitorID, Name, ParentCompany, Purpose, MobileNumber, VisitingDate, HostID

FROM Visitor

WHERE VisitingDate = '2025-04-05';

(9)

SELECT VisitorID, Name, ParentCompany, Purpose, MobileNumber, VisitingDate, HostID

FROM Visitor

ORDER BY VisitingDate DESC;

(10)

SELECT VisitorID, Name, ParentCompany, Purpose, MobileNumber, VisitingDate

FROM Visitor

WHERE HostID IS NULL;

(11)

SELECT v.VisitorID, v.Name, v.ParentCompany, v.Purpose, v.MobileNumber, v.VisitingDate

FROM Visitor v

JOIN Host h ON v.HostID = h.HostID

WHERE h.HostName = 'John Smith';

(12)

SELECT v.VisitorID, v.Name, v.ParentCompany, v.Purpose, v.MobileNumber, v.VisitingDate

FROM Visitor v

JOIN Host h ON v.HostID = h.HostID

WHERE h.Department = 'IT';

(13)

SELECT COUNT(\*) AS VisitorCount

FROM Visitor

WHERE HostID = 1 AND VisitingDate = '2025-04-01';

(14)

SELECT COUNT(\*) AS VisitorCount

FROM Visitor

WHERE LocationID = 1 AND VisitingDate = '2025-04-01';

(15)

(16)

WITH VisitorCounts AS (

SELECT h.HostID, h.HostName, COUNT(v.VisitorID) AS VisitorCount

FROM Host h

LEFT JOIN Visitor v ON h.HostID = v.HostID

GROUP BY h.HostID, h.HostName

)

SELECT HostID, HostName, VisitorCount

FROM VisitorCounts

WHERE VisitorCount = (SELECT MIN(VisitorCount) FROM VisitorCounts);

(17)

SELECT h.HostID, h.HostName

FROM Host h

LEFT JOIN Visitor v ON h.HostID = v.HostID

WHERE v.VisitorID IS NULL;

(18)

SELECT VisitingDate, COUNT(\*) AS VisitorCount

FROM Visitor

GROUP BY VisitingDate

ORDER BY VisitingDate;

(19)

SELECT VisitorID, Name, ParentCompany, Purpose, MobileNumber, VisitingDate

FROM Visitor

WHERE HostID = 1

AND VisitingDate BETWEEN '2025-04-01' AND '2025-04-07';

(20)

SELECT HostID, HostName, Department

FROM Host

WHERE Department != 'HR';

(21)

SELECT VisitorID, Name, ParentCompany, Purpose, VisitingDate, HostID

FROM Visitor

WHERE MobileNumber IS NULL;