

Solutions: Assume date format dd/mm/yyyy

1	CREATE TABLE StaffSkills (Staff_ID numeric(2), Skill_Code char(3), CONSTRAINT pk_SSskills PRIMARY KEY (Staff_ID, Skill_Code), CONSTRAINT fk_SSskills_Staff FOREIGN KEY (Staff_ID) REFERENCES Staff, CONSTRAINT fk_SSskills_Skills FOREIGN KEY (Skill_Code) REFERENCES Skills);
2	UPDATE Skills SET Hourly_Rate = Hourly_Rate * 1.05 WHERE Skill_Code = 'BAR';
3	INSERT INTO Staff VALUES(23, 'SMITH', 'JOHN', '0871234567', 'A');
4	SELECT * FROM Staff ORDER BY Surname DESC, Forename;
5	SELECT * FROM Staff WHERE Status = 'U';
6	SELECT R.Staff_ID, Surname, Forename FROM Staff S, Recruitments R WHERE S.Staff_ID = R.Staff_ID AND R.Hotel_ID = (SELECT Hotel_ID FROM Hotels WHERE H_Name = 'London Hilton'); OR SELECT R.Staff_ID, Surname, Forename FROM Staff S, Recruitments R, Hotels H WHERE S.Staff_ID = R.Staff_ID AND R.Hotel_ID = R.Hotel_ID AND H_Name = 'London Hilton'; OR SELECT * FROM Staff WHERE Staff_ID IN (SELECT Staff_ID FROM Recruitments WHERE hotel_ID = (SELECT Hotel_ID FROM Hotels WHERE H_Name = 'London Hilton'));
7	SELECT AVG(Hourly_Rate) AS AvgRate FROM Skills;
8	SELECT Skill_Code, COUNT(*) AS NumStaff FROM StaffSkills GROUP BY Skill_Code;

9	SELECT * FROM Skills WHERE Hourly_Rate > (SELECT AVG(Hourly_Rate) AS AvgRate FROM Skills);
10	SELECT Surname, Forename, H_Name FROM Staff S, Recruitments R, Hotels H WHERE R.Staff_ID = S.Staff_ID AND R.Hotel_ID = H.Hotel_ID AND Job_Date = '31/12/2013';
11	SELECT H_Name, SUM(Charge) AS TotCharge FROM Hotels H, Recruitments R WHERE R.Hotel_ID = H.Hotel_ID GROUP BY H_Name;
12	SELECT * FROM Staff WHERE Staff_ID IN (SELECT Staff_ID FROM Staff_Skills WHERE Skill_Code = 'BAR'); OR SELECT S.Staff_ID, Surname, Forename FROM Staff St, StaffSkills SS, Skills Sk WHERE St.Staff_ID = SS.Staff_ID AND SS.Skill_Code = Sk.Skill_Code AND Sk.Skill_Code = 'BAR';
13	SELECT H_Name FROM Hotels H, Recruitments R WHERE H.Hotel_ID = R.Hotel_ID (+) AND Charge IS NULL; OR SELECT H_Name FROM Hotels H LEFT JOIN Recruitments R ON H.Hotel_ID = R.Hotel_ID WHERE Charge IS NULL; OR SELECT H_Name FROM Hotels WHERE Hotel_ID NOT IN (SELECT DISTINCT Hotel_ID FROM Recruitments);
14	SELECT * FROM Staff WHERE Staff_ID NOT IN (SELECT DISTINCT Staff_ID

	<p>FROM Recruitments);</p> <p>OR</p> <p>SELECT S.Staff_ID, Surname, Forename FROM Staff S, Recruitments R WHERE S.Staff_ID = R.Staff_ID (+) AND Job_Date IS NULL;</p>
15	<p>SELECT Hotel_ID, COUNT(*) AS NumRec FROM Recruitments GROUP BY Hotel_ID;</p>
16	<p>SELECT SUM(Charge) AS TotalEarned FROM Recruitments WHERE Job_Date LIKE '%/2012';</p>
17	<p>SELECT * FROM Staff WHERE Staff_ID IN (SELECT Staff_ID FROM StaffSkills GROUP BY Staff_ID HAVING COUNT(*) > 2);</p>