



# INSTITUTE OF TECHNOLOGY TRALEE

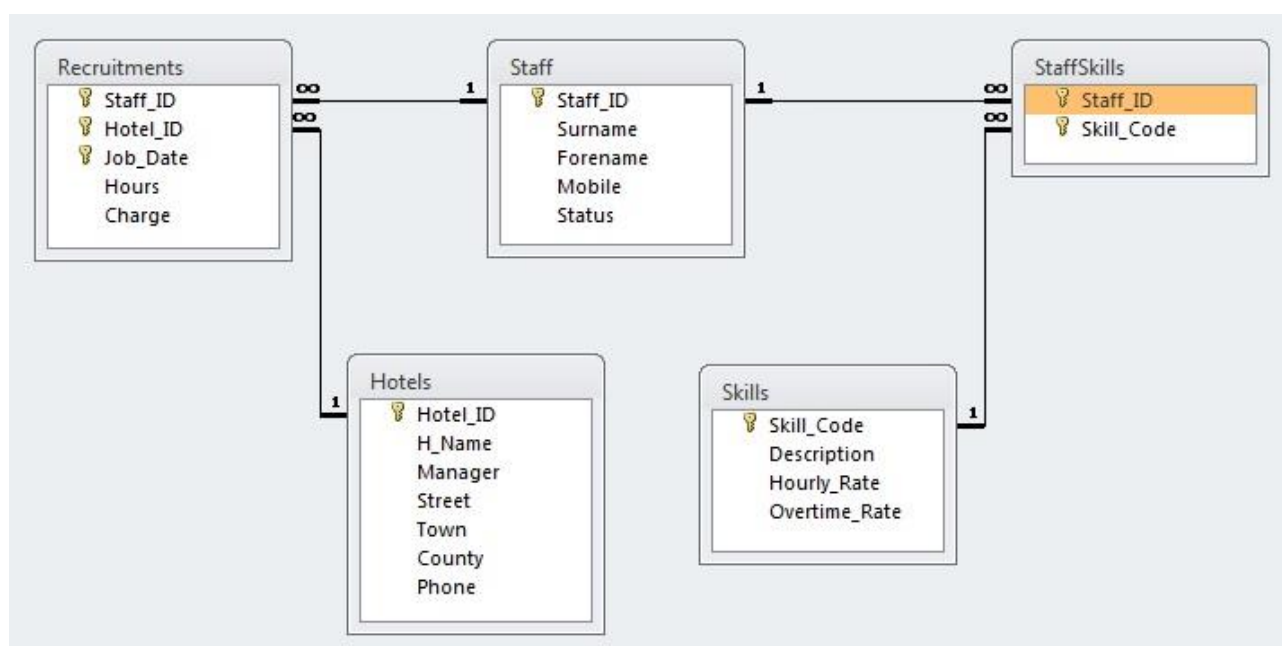
## Database Concepts Continuous Assessment 01 2013

**Duration: 1 Hour**

**Write your answers on a separate sheet.  
Do NOT use red pen.  
Write your name clearly at the top of each answer sheet.**

A recruitment agency provides relief staff to hotels and charge on an hourly basis. Staff have one or more skills (e.g. Bar, Restaurant, kitchen, Housekeeping, etc).

**Consider the Following data model:**



Where:

- Staff status is 'available' (A) or 'unavailable' (U)
- the following staff skills are recorded in the Skills table:

Skill_Code	Description
BAR	Bar person
HSK	House keeping (Cleaning)
RST	Waiter / Waitress
KTC	Kitchen

**Give the SQL statements (queries) to do the following:**

**Total marks: 85**

1. Create the StaffSkills table, defining table level constraints for the primary key and any foreign keys. (5)
2. Increase the hourly rate of bar staff by 5%. (5)
3. Add a new staff member to the Staff table (use data of your own choosing). (5)
4. List all staff in descending order of surname and forename. (3)
5. List all staff that are presently unavailable for work. (3)
6. List all staff ever recruited by the hotel named 'London Hilton'. (4)
7. Find the average hourly rate of pay for all skills. (4)
8. List Skill\_Code and number of (how many) staff with that skill. (4)
9. List all job skills which are paid more than the average hourly rate. (5)
10. List staff surname, forename and hotel where recruited for all staff recruited on 31<sup>st</sup> December 2012. (6)
11. List the hotel name and total recruitment charge for each hotel. (6)
12. List all staff who have 'Bar' skills. (6)
13. List hotel name for all hotels which have never recruited staff. (7)
14. List details of all staff who have never been recruited. (7)
15. List Hotel\_ID and the number of recruitments the hotel has had. (4)
16. Find the total amount of money earned by agency staff in 2012. (5)
17. List staff details for all staff with more than 2 skills. (6)