**Ass01\_2013 Solutions**

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| **1** | CREATE TABLE StaffSkills  (Staff\_ID numeric(5),  Skill\_Code char(3),  CONSTRAINT pk\_StaffSkills PRIMARY KEY (Staff\_Id, Skill\_Code),  CONSTRAINT fk\_sk\_Staff FOREIGN KEY (StaffId) REFERENCES Staff,  CONSTRAINT fk\_sk\_Skills FOREIGN KEY (Skill\_Code) REFERENCES Skills); | 5 |
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| **2** | UPDATE Skills  SET Hourly\_Rate = Hourly\_Rate \* 1.05  WHERE Skill\_Code = ‘Bar’; | 5 |
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| **3** | INSERT INTO Staff  VALUES(278, ’WOODS’,’CATH’,’0871234567’,’A’); | 5 |
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| **4** | SELECT \*  FROM Staff  ORDER BY Surname, Forename; | 3 |
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| **5** | SELECT \*  FROM Staff  WHERE Status = ‘U’; | 3 |

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| **6** | 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’)); | 4 |
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| **7** | SELECT AVG(Hourly\_Rate)  FROM Skills; | 4 |
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| **8** | SELECT Skill\_Code, COUNT(\*)  FROM StaffSkills  GROUP BY Skill\_Code; | 4 |
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| **9** | SELECT \*  FROM Skills  WHERE Hourly\_Rate > (SELECT AVG(Hourly\_Rate  FROM Skills); | 5 |
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| **10** | SELECT Surnaem, Forename, H\_name  FROM Staff S, Hotels H, Recruitments R  WHERE R.Hotel\_ID = H.Hotel\_ID AND  R.Staff\_ID = S.Staff\_ID AND  Job\_Date = ‘31/12/2013’; | 6 |
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| **12** | SELECT \*  FROM Staff S, StaffSkills K  WHERE SK.Staff\_ID = S.Staff\_ID AND  S.Skill\_Code = ‘Bar’; | 6 |

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| **13** | SELECT H\_Name  FROM Hotels H, Recruitments R  WHERE H.Hotel\_ID = R.Hotel\_ID(+) AND  Job\_Date IS NULL;  \*Note Outer Join required (+) | 7 |
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| **14** | SELECT Surname, Forename  FROM Staff S, Recruitments R  WHERE S.Staff\_ID = R.Staff\_ID(+) AND  Job\_Date IS NULL;  \*Note Outer Join required (+) | 7 |
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| **15** | SELECT Hotel\_ID, COUNT(\*)  FROM Recruitments  GROUP BY Hotel\_ID; | 4 |
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| **16** | SELECT SUM(Charge)  FROM Recruitments  WHERE Job\_Date LIKE ‘%/2012’; | 5 |
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| **17** | SELECT \* FROM Staff WHERE Staff\_ID IN (SELECT Staff\_ID FROM StaffSkills GROUP BY Staff\_ID HAVING COUNT(\*) > 1); | 6 |
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