

## Group tasks – Model Answers

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Here are some possible ways of answering the group tasks. They are not definitive: the best design is the one that fits well with the practicalities of your situation. The purpose of the activity is to help you practice analysing a scenario and designing a sensible way of managing the data.

You may come up with something quite different!

# 1. William Gladstone's Diaries

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## Question

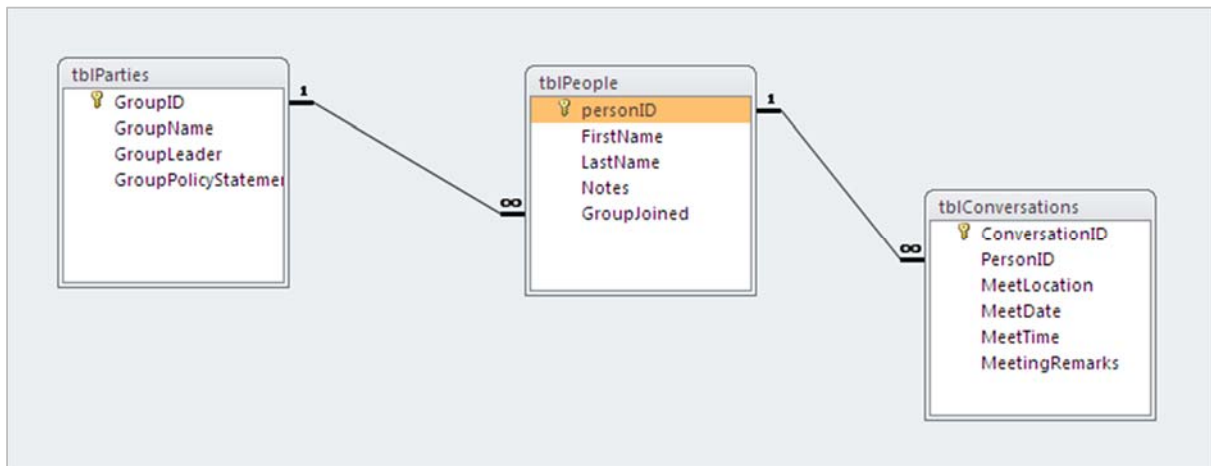
William Gladstone (Prime Minister during the period 1868-94) kept a diary all his life, recording every person he met. He met some people many times, others only once. Each person was associated with a political party or group.

The diaries have now been published and the editor wants to produce a final index volume, giving details about each person mentioned and the date/s when Gladstone met them, as well as their political affiliations. She also wants to be able to find all the people whom he saw on a particular day, for checking.

Discuss in your group the *fields* that may be needed. Using the paper slips provided, choose which are likely to be needed as fields, discard any irrelevant ones and write more slips for other fields that you think of.

Organise the fields into groups which belong together, and allocate them to *tables* using the printed sheets. For each field in a table, decide on the *data type* (text, number, date, yes/no etc.).

## Possible Answer



(Notice that it's not essential for the field name in one table to be the same as the corresponding field name in the joined table.)

## 2. HL Consultants

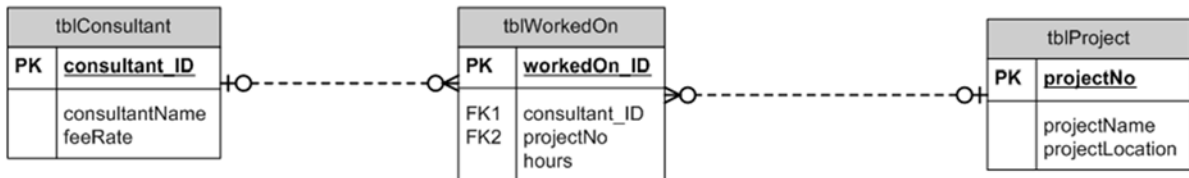
### Question

HL Consultants provide consultants to work on clients' projects. Each consultant works on only one project at a time, but a project may employ more than one consultant.

Look at the table below and design a database to store this information efficiently. Sketch out the tables needed, and list the fields needed in each.

Consultant ID	Project no	Hours	Project name	Consultant name	Project location	Hourly rate
21	A92	450	Apollo	Gray	Glasgow	£ 100.00
25	Z50	90	Zeus	Brown	Edinburgh	£ 90.00
33	Z50	20	Zeus	White	Edinburgh	£ 95.00
37	M75	135	Mercury	Green	Aberdeen	£ 150.00

### Possible Answer



### 3. Room Bookings

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#### Question

An admin assistant has been asked to look after a set of meeting rooms, and to keep track of room bookings that are made by people from various other departments. He plans to create a computerised database for this.

Discuss in your group the fields that may be needed.

Organise the fields into groups which belong together, and allocate them to tables. For each field in a table, decide on the *data type* (text, number, date, yes/no etc.).

As with any real-life design, you will have to make assumptions or simplifications. Note these at the bottom of the relevant table.

#### Possible Answer

