**Databases - Session 2 Activity Answers**

**Activity 1**

|  |  |  |
| --- | --- | --- |
|  | ENTITY TYPE | OCCURRENCE |
| A). EMPLOYEE claims EXPENSES | √ |  |
| B). ASDA sells MILK |  | √ |
| C). HAZEL SMITH teaches EPD |  | √ |
| D). CUSTOMER buys PRODUCT | √ |  |

**Activity 2**

**A DIRECTOR directs Many FILMS**

**A FILM is directed by One DIRECTOR**

**Activity 3**

EXPENSES are claimed by EMPLOYEE

EMPLOYEES claim EXPENSES

PRODUCT are bought by CUSTOMER

CUSTOMER buys PRODUCT

**Activity 4**



Activity 5



**Activity 6**

**a)**



**b)**

is currently occupied by

occupies

is made by

makes

MEMBER

BOOKING

SUNBED

reserves

is reserved by

A Member, who has Bookings, may not be currently occupying a sun bed, and some of the sun beds may be unused at any time.

Note: If we needed to keep a history of which members had used which sunbeds then the relationship between MEMBER and SUNBED would be shown as a m:n with optionality, resulting in an entity called OCCUPANCY.

**c)**

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**Activity 7**

Date\_started, Semester, attendance\_percentage, Overall\_result, Assignment1 \_result, Assignment2\_result

**Activity 8**



**Activity 9**

a)



b)



**Activity 10**



**Tutorial Answers**

**1. a)**

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**b) *operator\_id, customer\_id*,** date&time

Note in this case the operator\_id and customer\_id together will not be enough to produce a unique identifier as an operator over time may take more than one call from the same customer. However if we include the date&time we can create a compound unique identifier.

**2**

