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**PROJECT NAME:CPSC 509 DATABASE PROJECT**

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**TOPIC NAME: DATA ENTITIES, ATTRIBUTES, AND FILES**

1. Business model database includes five entities that are, employee, department, product, project, dependent.

Employee entity has four attributes e\_id, ename, address, class . suppose a business runs with many employees where in employee table we can store employee details like his name class address and give a unique id which is e\_id, which helps us to retrieve employee details from the database.

Department entity has three attributes dept\_id, e\_id, dept\_name. A business has many department where many employees are working on, in this table all department name, department id and associated employees data will be saved.

Product entity has three attributes like product id, dept\_id, and product name, suppose in a business includes many department and those department contribute some specific products so in this table each department and the associated product details will be saved.

Project entity has four attributes project id, e\_id, dept\_id, project name. In a business every employee are divided into some project , in this table all the employee details and his/her department and associated project details will be saved.

Dependent entity has four attributes dependent id, dept id, dept\_name, gender , in a business model this table will store the details of every department has how many male and females employees.

2.

|  |  |
| --- | --- |
| employee |  |
| e\_id | Int[10] |
| ename | Varchar[20] |
| address | Varchar[20] |
| class | Varchar[10] |

|  |  |
| --- | --- |
| department |  |
| dept\_id | Int[10] |
| e\_id | Int[10] |
| dept\_name | Varchar[20] |

|  |  |
| --- | --- |
| product |  |
| Product\_id | Int[10] |
| dept\_id | Int[10] |
| Product\_name | Int[50] |

|  |  |
| --- | --- |
| project |  |
| P\_id | Int[10] |
| e\_id | Int[10] |
| dept\_id | Int[10] |
| project\_name | Varchar[50] |

|  |  |
| --- | --- |
| dependent |  |
| d\_id | Int[10] |
| dept\_name | Varchar[20] |
| dept\_id | Int[10] |
| gender | Char[2] |