

Tutorial Task – Session 1

The brief is to create a scenario for a database that contains a collection of material on a specific topic. The choice of scenario is yours, but it must NOT be any of the scenarios used in tutorials, examples, exercises or assessments in this module.

The following scenarios will be considered: Library, Bird Watching, Cargo Shipping Line, Warehouse, Zoo, Movie-Actor-Director Industry, Car Rental Service, Song-Artist Industry, DVD Rental, Hotel Booking, Hospital. More details will follow on the tutorials.

Use this template and the example developed in the lecture to create your own scenario.

Use the session 1 tutorial to start developing your scenario. In session 2 tutorials you will have an opportunity to get feedback on it from the teaching assistants to make sure you are on the right track.

You can use the scenario as the starting point for the first coursework so do not copy the work of others as this is academic misconduct and will be penalised.

Scenario Title: Electronic Shop

Scenario (100 words maximum)

The database stores details of purchases made by customers, including the order number, name of the item, date of purchase, customer address, date delivered/picked up, type of purchase (online or in-store) and etc. The database will allow the owner and the employees to keep track of sales and collect data about when certain products are in demand.

Example entities and attributes (Minimum 4 example entities, each with at least 2 example attributes and values. At least one entity must be an event/action entity). Identify keys where appropriate.

Order (Entity)

- Order Number – 35692 (Primary key)
- Item Number – 7229
- Order Total – 1400

Item (Entity)

- Item Number – 7229 (Key)
- Item type – Laptop
- Item colour – Black
- Brand name – Asus
- Series – G
- Model number – 14
- Year released – 2023

Purchase (Entity)

Purchase type – In-store

Location – W1D 1BZ (Key)

Date (Entity)

Date of purchase – 24/09/24

Date of delivery – 26/09/24

Customer (Entity)

Customer name – Maj

Customer surname – Islam

Customer ID – 29 (Key)

Example queries (Minimum 5 – list, who, which, how many, most, fewest etc. - check that you have listed the attributes needed to answer your queries)

1. How many in-store purchases have been made in the last month?
2. How many times did the customer with ID number 29 buy order from the shop?
3. When was the last time the Asus G14 was bought?
4. What item was bought in order number 35693?
5. How many times was item number 7229 ordered?
6. When was the last time a black laptop was sold?