Assignment #:	4a
Description:	EER Model
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Gitlab URL:	https://gitlab.liu.se/rasla833/tddd-12-labs-group-c-09

EER Model diagram.

Entities and relationships shown:

- Weekday — Weekday factor — Factor
- Weekday factor — 1 — Get Factor — N — Weekly schedule
- Weekday, ID (attributes of Weekly schedule)
- Route: From, To, RoutePrice, RouteID
- Route 1 — Used in — N Weekly schedule
- Weekly schedule: Year, Time Dep
- Weekly schedule N — Get Factor — 1 Profit factor
- Profit factor: Year, Factor
- Weekly schedule 1 — Used in — N Flight
- Passenger: Passport No., Name
- Passenger M — Seat Reserved In — N Reservation
- Reservation: Ticket No., Contact Info (E-Mail, Phone No.), Res No., Is payed for
- Reservation N — For flight — 1 Flight
- Flight: Flight No., Week, Booked seats (derived)
- Reservation N — Payed by — 1 Card holder : Total Price
- Card holder: Name, Credit Card No.

Assumptions:

1. A reservation can only be payed by one Card Holder. But a Card holder can pay for multiple reservations.
2. Multiple passengers can be in multiple reservations. A ticket No. is NULL as default, and gets updated if the reservation gets payed for.
3. Number of booked(payed) seats on a flight can be calculated by checking how many reservations that has been payed for.
4. Weekday/profit factor are implemented as their own entities in order to easily modify the values if needed.

Other comments...

Note:

1. This template contains two pages (EER Model, Relational Model, see the bottom of the editor window).
2. Fit each diagram on one page, preserve the page size.
3. Fill out the header at the top left corner on both pages.
4. Keep the diagrams clean, i.e. shapes and lines should not overlap, maintain optimal distance between the objects, etc.
5. Save a working copy as an XML .drawio file to be able to correct the diagrams in the future.
6. To submit the diagrams, they must be exported and uploaded to Gitlab as a PDF file (File->Export as->PDF->All pages).

Legend:
- Entity
- weak entity
- Attributes
- multivalued attribute
- Relationship
- identifying relationship
- key Attribute
- part of key attribute
- derived attribute
- E1 — R — E2 : Total participation of E2 in R
- Use this symbol ==> when showing subclasses

Fill in cardinalities by placing a text block and labeling it 1, N or M

Route

ID	From	To

Weekly schedule

ID	Weekday	Year	Time Dep	Route

Profit Factor

Year	Factor

Weekday Factor

Weekday	Factor

Flight

Flight No.	Week	Weekly flight

Reservation

Res No.	Phone No.	E-Mail	Is Payed	Flight	Price	Payed by

Card Holder

Card No.	Name

Seat Reserved In

Res No.	Pass No.	Ticket No.

Passenger

Pass No.	Name