

Database Analysis & Design

by Michael Oldham

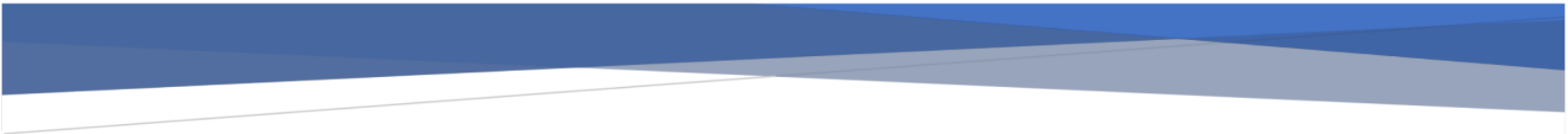
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DATABASE ANALYSIS & DESIGN

Introduction to Web and Database Concepts

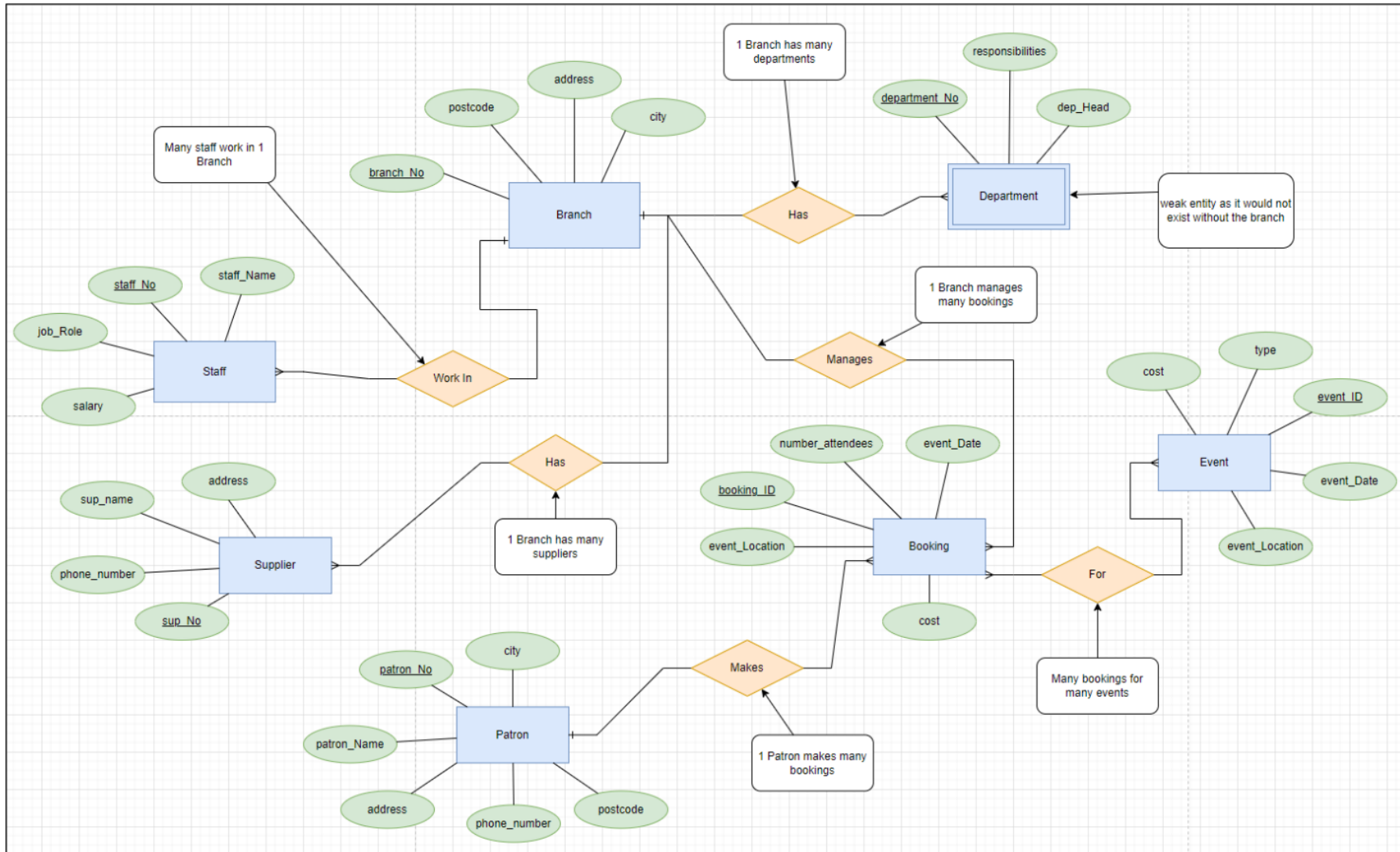
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Description

Northern Lights PVT Ltd is an event organising company located in Swansea. They organise events for more than 10 people like conferences, Workshops, seminars, Music festivals or concerts etc., excluding parties and business meetings. They have recently expanded and now have branches in Neath and Carmarthen. Each branch has a branch manager supervising a team of staff who takes care of setting up of audio and visual equipment, selling tickets, cleaning ,maintaining and administrating events. The branch manager acts as a primary point of contact with event patrons. The patrons are usually companies and associations relating to the event topic. The branch manager receives the requirements from patrons to successfully run the event. Once the requirements are agreed, the branch manager assigns the task to various department heads. Northern Lights company also have several suppliers which they use to order resources required for the events as well as for the day to day running .

Each branch will be responsible for all the tasks pertaining to the event that is booked within their area. Due to the expansion they would like to change the manual administration process to a computerised system with the aid of database management system which can help for ensured success of the event. Despite having a physical office, they realise that an online presence could increase the number of customers. They would like to use a system that will allow them to record customer details along with event requested. To complete the accounting records, they would like to have automatic provision of customer invoices that should help them to keep a record of the income generated from the various events so that they may at some future date be able to calculate quarterly and yearly profits. The departments and their responsibilities is left to your discretion.

Entity Relationship Diagram



My Entity Relationship Diagram above shows an overview of the different entities required to create a database management system for Northern Lights pvt Ltd. The entities (colour-coded in blue) are as follows: Staff, Branch, Supplier, Department, Patron, Booking and Event. Each of these entities' attributes are shown (colour-coded in green) and their relationships (in orange).

The diagram aims to show how many staff work in one branch. One branch has many departments, many suppliers and manages many bookings. One patron can make many bookings for many events.

Screen Captures for forms:

Supplier Details	
sup_No	20002
sup_Name	J&M Stationary
address	323 Hilltop View
city	Swansea
postcode	SA4 3RF
phone_Number	01792 787766

Patron Details	
patron_Number	P001
patron_Name	J&M Audio
address	
city	Swansea
postcode	SA1 3ER
phone_Number	01792 786544

Staff Details

staff_No

staff_name

department_No

branch_No

job_Role

Salary

Event Details

event_ID

type

cost

Department Details

department_No

branch_No

responsibilities

Branch Details

branchNo

Address

City

Postcode

Booking Details

booking_ID

event_ID

patron_No

number_attendees

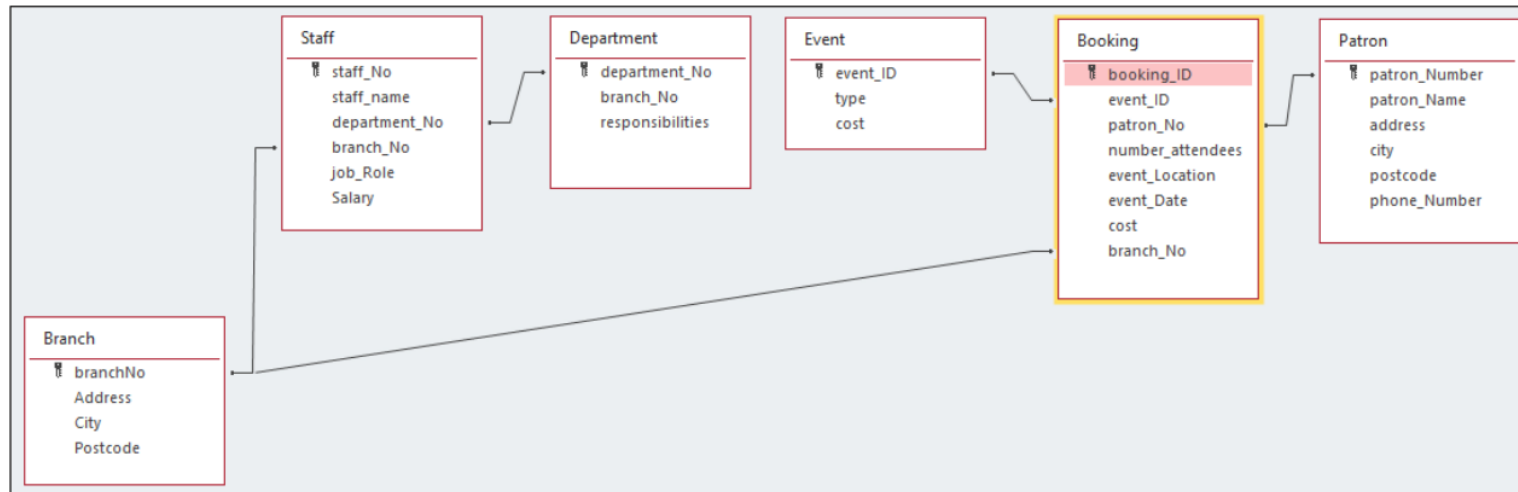
event_Location

event_Date

cost

branch_No

Relationship Diagram screenshot



Tables from Database

Booking

booking_ID	event_ID	patron_No	number_attendees	event_Location	event_Date	cost	branch_No
1	E1001	P001	24	Swansea	24/03/2023	£350.00	BR01
2	E1005	P001	1500	Carmarthen	30/04/2023	£2,750.00	BR03
3	E1002	P003	50	Swansea	29/03/2023	£500.00	BR01

Branch

branchNo	Address	City	Postcode
BR01	101 High Street	Swansea	SA1 0AL
BR02	18 New Street	Neath	SA11 4RX
BR03	345 Old Road	Carmarthen	SA18 7JL

Department

department_No	branch_No	responsibilities
D01	BR01	Audio & Visual Setup
D02	BR01	Sales
D03	BR01	Cleaning
D04	BR01	Maintenance
D05	BR01	Admin
D06	BR02	Audio & Visual Setup
D07	BR02	Sales
D08	BR02	Cleaning
D09	BR02	Maintenance
D10	BR02	Admin
D11	BR03	Audio & Visual Setup
D12	BR03	Sales
D13	BR03	Cleaning
D14	BR03	Maintenance
D15	BR03	Admin

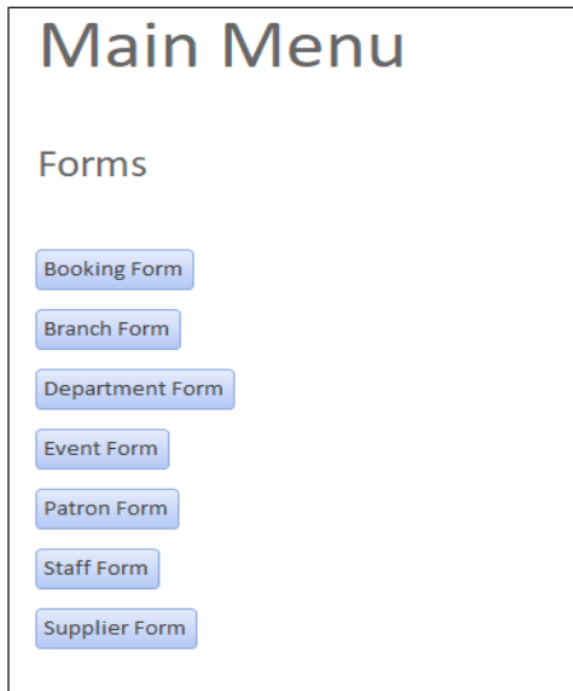
event_ID	type	cost
E1001	Conference	£350.00
E1002	Workshop	£500.00
E1003	Seminar	£150.00
E1004	Music Festival	£3,500.00
E1005	Concert	£2,750.00

patron_Nun	patron_Name	address	city	postcode	phone_Number
P001	Blightzoom LTD		Swansea	SA1 3ER	01792 786544
P002	Feeders LTD		Carmarthen	SA15 2LL	01267 778654

staff_No	staff_name	branch_No	department_No	job_Role	Salary
9001	John Jones	BR01	D01	Department Head	£21,500.00
9002	Stef Andrews	BR02	D06	Department Head	£21,500.00
9003	Antony Evans	BR03	D11	Department Head	£21,500.00
9004	Emily Jones	BR01		Manager	£30,000.00
9005	Rachel Davies	BR02		Manager	£30,000.00
9006	Mike Oldham	BR03		Manager	£30,000.00
9007	Daniel Bidling	BR01	D02	Department Head	£21,500.00
9008	Jonathan Coakes	BR02	D07	Department Head	£21,500.00
9009	Julia Sweel	BR03	D12	Department Head	£21,500.00
9010	Evan Lawrewll	BR01	D03	Department Head	£21,500.00
9011	Lawrence Hall	BR01	D04	Department Head	£21,500.00
9012	Katy Jones	BR01	D05	Department Head	£21,500.00
9013	Cathy Hammond	BR02	D08	Department Head	£21,500.00
9014	Elis Cairn	BR02	D09	Department Head	£21,500.00
9015	Scott Smith	BR02	D10	Department Head	£21,500.00
9016	Jane Aleer	BR03	D13	Department Head	£21,500.00
9017	Bert Matthews	BR03	D14	Department Head	£21,500.00
9018	Monty Coop	BR03	D15	Department Head	£21,500.00

sup_No ▾	sup_Name ▾	address ▾	city ▾	postcode ▾	phone_Number ▾
20002	J&M Stationary	323 Hilltop View	Swansea	SA4 3RF	01792 787766
20003	Boolean's Audio	123 Rave Road	Carmarthen	SA15 3RR	01554 353426

Main Menu Screenshot



The screenshot shows a web application interface. At the top, there is a large heading 'Main Menu'. Below this heading, the word 'Forms' is displayed. Underneath 'Forms', there is a vertical list of seven buttons: 'Booking Form', 'Branch Form', 'Department Form', 'Event Form', 'Patron Form', 'Staff Form', and 'Supplier Form'. Each button is light blue with a thin border and rounded corners.

The main menu has multiple buttons in order for the user to click into the desired form that they require. The forms can then be used to add or amend records.

Database Analysis & Design

GRADEMARK REPORT

FINAL GRADE

GENERAL COMMENTS

71 /100

Instructor

Generic Assessment Criteria	Marks awarded
	71
1. Engagement with Literature Skills	
NA- Not Applicable	NA
2. Knowledge and Understanding Skills	
I was a good attempt trying to explain Entity Relationship Diagram at the beginning however, explanation about the scenario and other tables created are missing. Entity relationship diagrams is an essential tool for database design and the ERD produced is clear and consistent.	18

- relationships are well-defined and clearly labelled - Entities and attributes are clearly identified. - specific users and their abilities were not clearly explained. - Explanation about Third Normal form for the tables is missing.	
3. Cognitive and Intellectual Skills	
- Information about branch manager and his additional access rights are missing. - The departments required to manage the organization were not identified. - When an event is booked both the staff and clients should be able to query and view information as required. some additional querying features and it's screen dumps could have been provided.	14
4. Practical Application Skills	

· A database system for the organization is well represented using ERD however the other requirement specifications after the investigation are missing. · screen shots showing the evidence of tables with the required fields are provided.- labelling and description for every screen shot is not provided. · relationship between tables is fairly represented. Multiplicity along with description is missing. · usage of an MS access functionality to produce calculations is missing.	35
5. Transferable Skills for Life and Professional Practice	
· Task answer for not well documented and structured. · Screen shots provide the evidence of your database however brief description about the tables and the keys could have been provided. · user guide to provide navigation between forms is missing.	4

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