



Information System Management

Chapter Five – Part 3:

• Microsoft Access

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HOW DO I BUILD A DATABASE?

Once the E-R model is built, it is used as a blueprint to build the real database

Translate (take) the model and use it as the 'instruction manual' to build the database.

لا يمكن الخطأ
والله اعلم

HOW DO I BUILD A DATABASE?

Once the **E-R model** is built, it is used as a **blueprint** to build the real **database**

- Model is mapped to an actual relational database
- Visualization (diagram) of the data

Diagrams Used to:

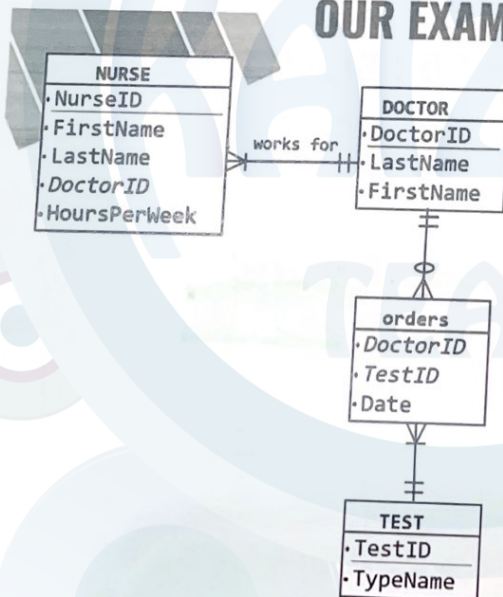
- document a model
- describe structured data

جستجو
Visualization
Data

لایه جستجو
Create Database

لایه عملیاتی
Visualization

OUR EXAMPLE FROM LAST WEEK



DATABASE DESIGN

- Will be converting the ERD to a Relational Database (in MS Access)

عند إجراء
عملية إنشاء
عليه To create
this database.

- Process of converting data model

1. Transforms entities into tables
2. Add attributes as table fields
3. Define field metadata and keys
4. Enforce relationships and constraints

في البداية
ال Entities
أحولها إلى
بصيرت
Attributes

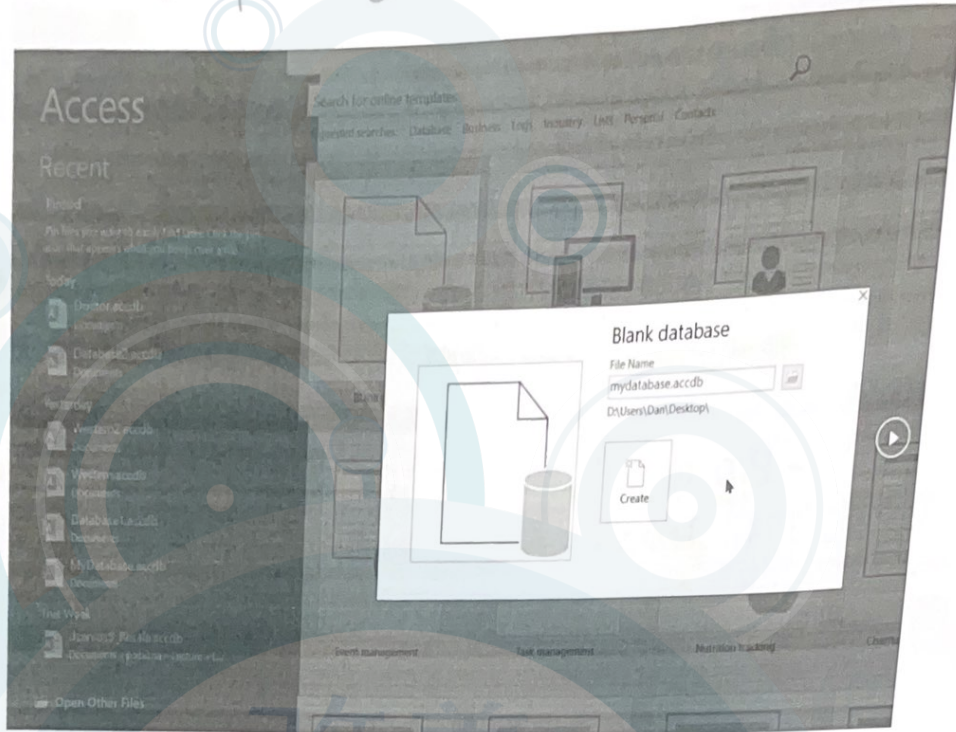
الخطوات
تتبعها إلى
MS
ACCESS

Table Fields إلى عند وبني أعرف ال Primary
و Headers Tables
و خطوط بؤاشة enforce Relationships
و constraints.

MICROSOFT ACCESS

Part 1: Basics

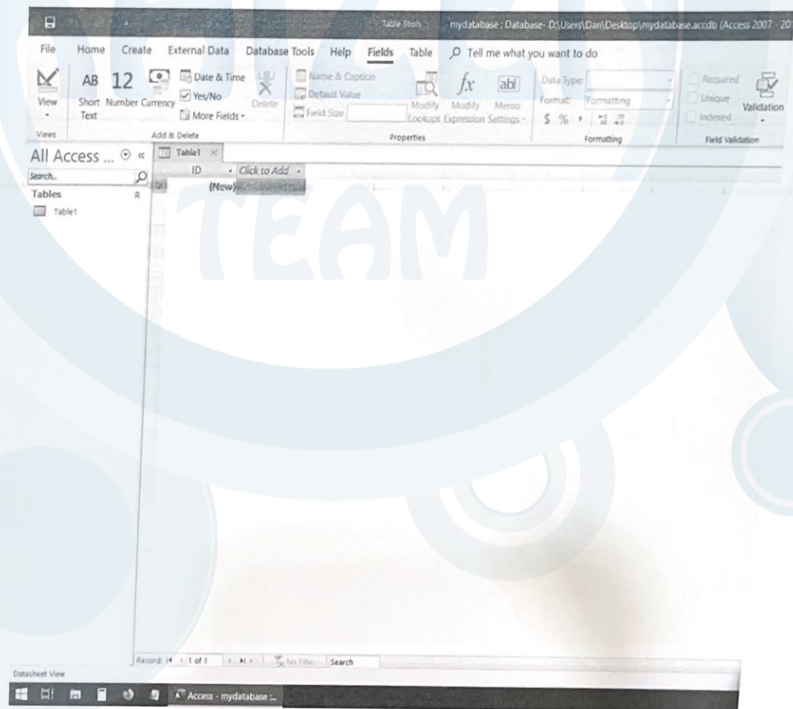
غالبه من مستخدمي لنسوي Database
بسهولة من على مستوى enterprise

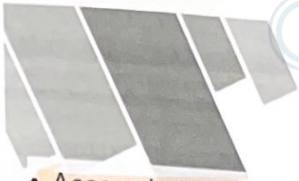


على مستوى قسم في الكلية !

تجابه على بين Excel و Word و Access لانهم من نفس
النسوي

Tape
view





EXTRA ACCESS RESOURCES

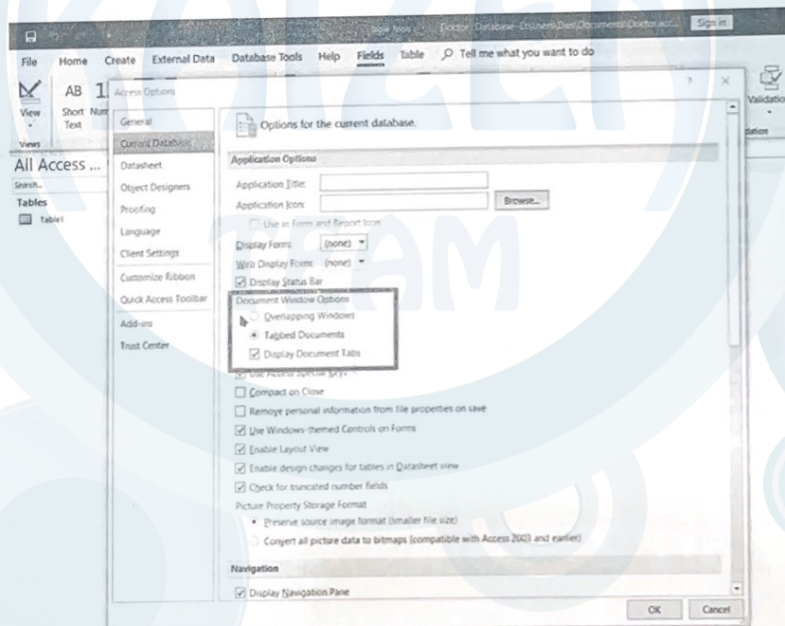
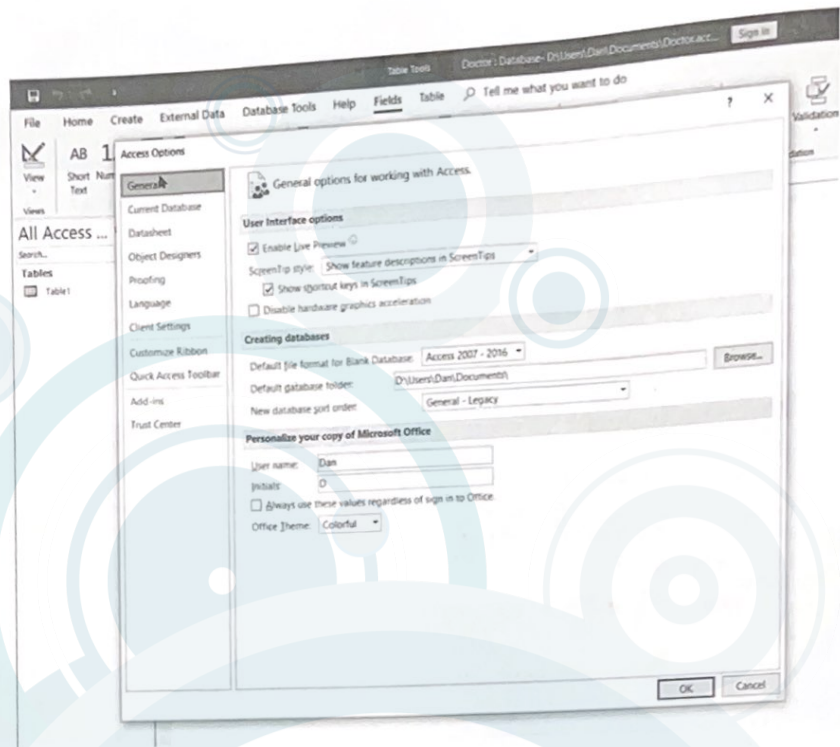
- [Access help & learning](#) (Official Microsoft Access documentation and resources)
- [Intro to Access](#)
- [Create a database in Access](#)
- [Add tables](#)
- [Use relationships](#)
- [Add and edit data](#)
- [Manage data with queries](#)
- [Create forms](#)
- [Create reports](#)

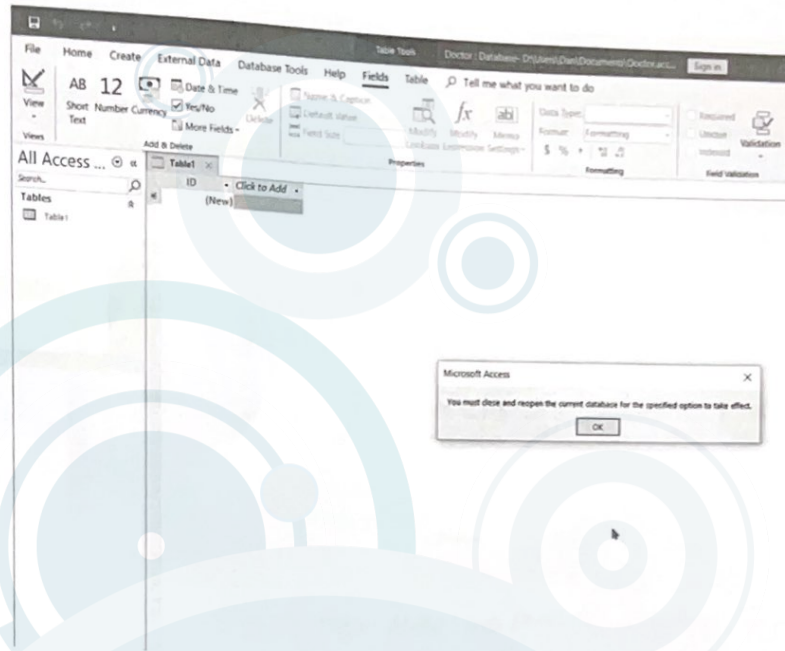
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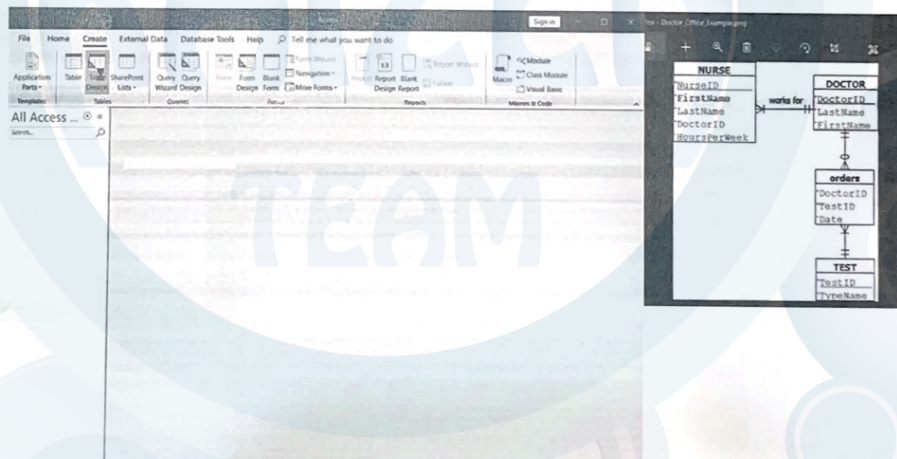
Part 2: Your First Table & Adding Fields

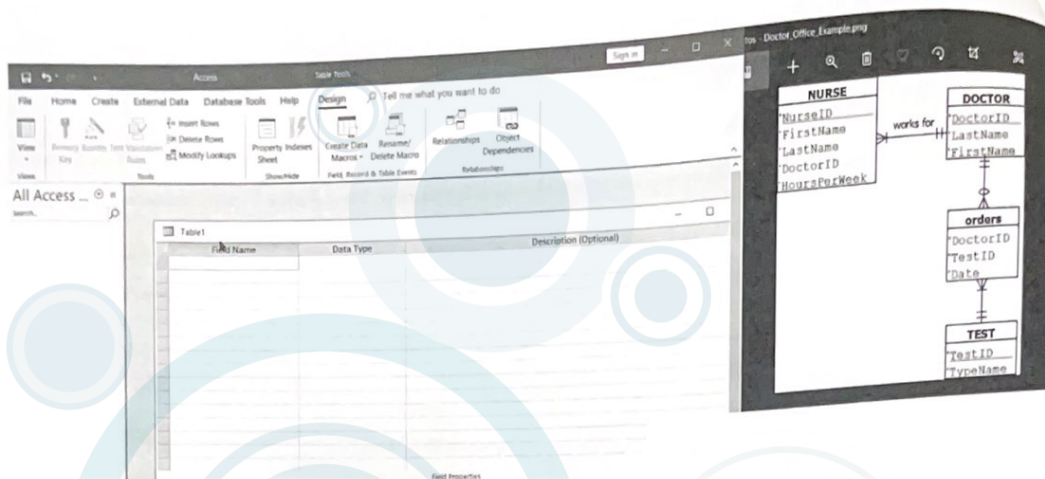




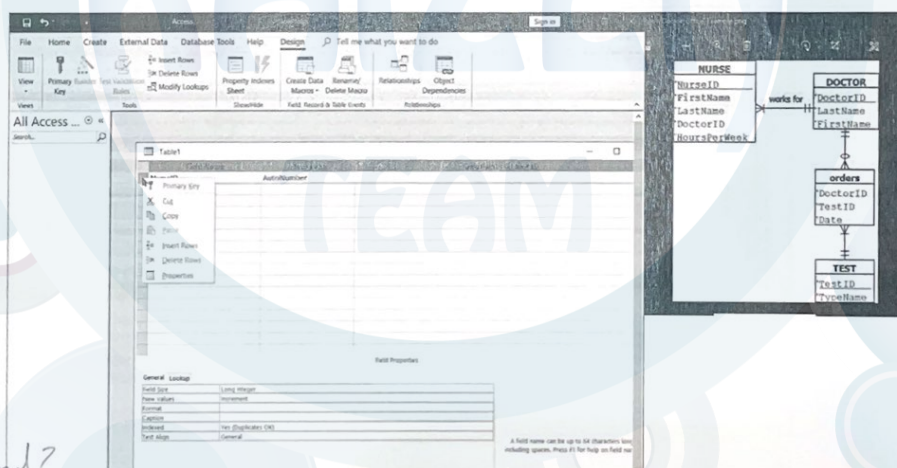
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Go to
Table design

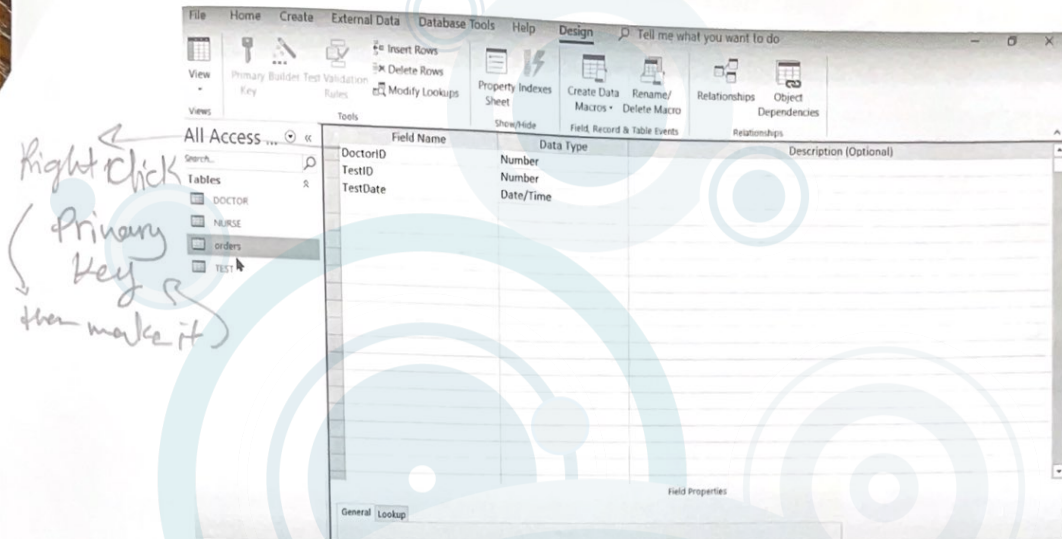




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Required?
Yes.



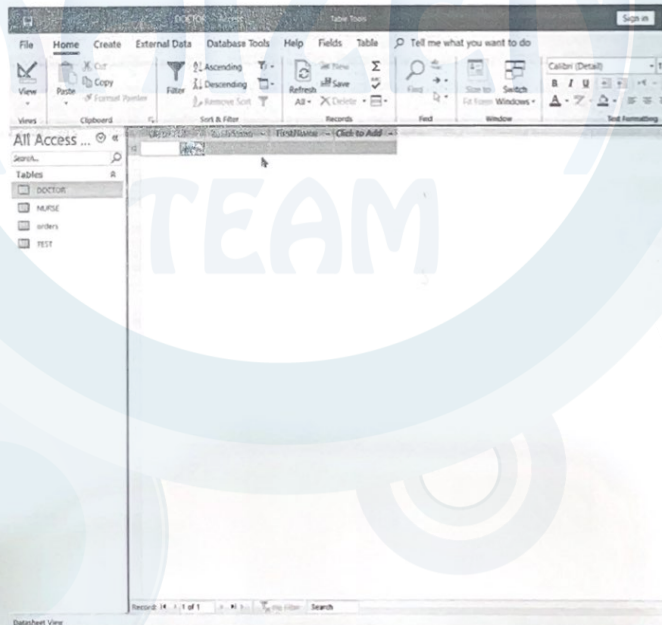
Right Click
(Primary Key)
then make it

Put the names

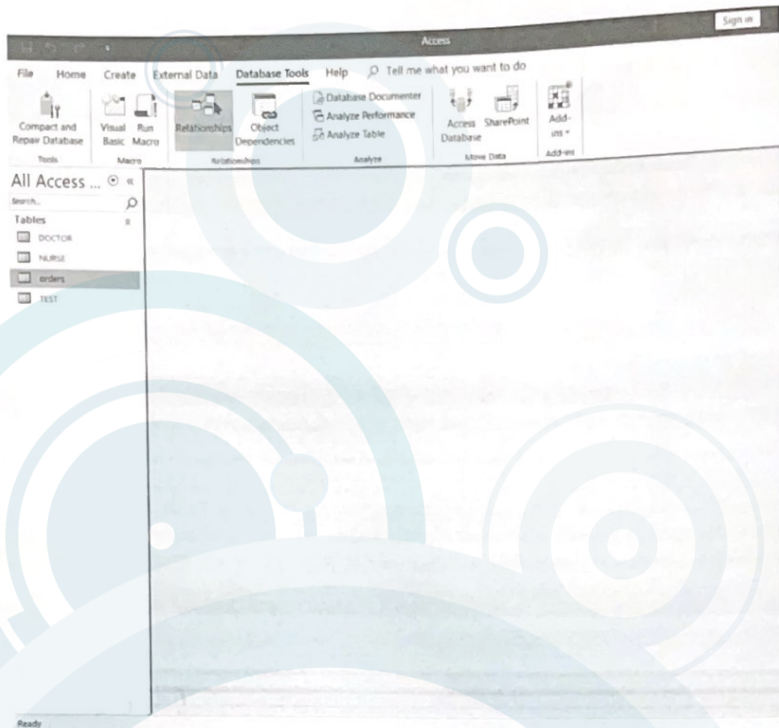
Data type
Long Integer
short text
Number

Horse per week

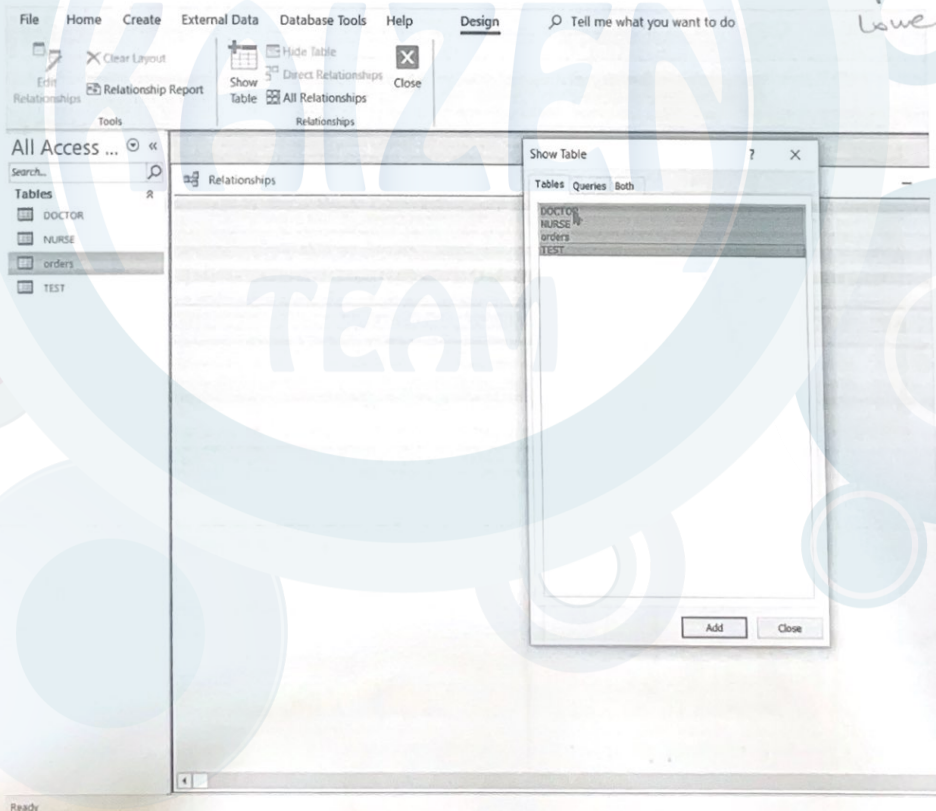
Field size Double
Required? No.



Capital
Primary
Key



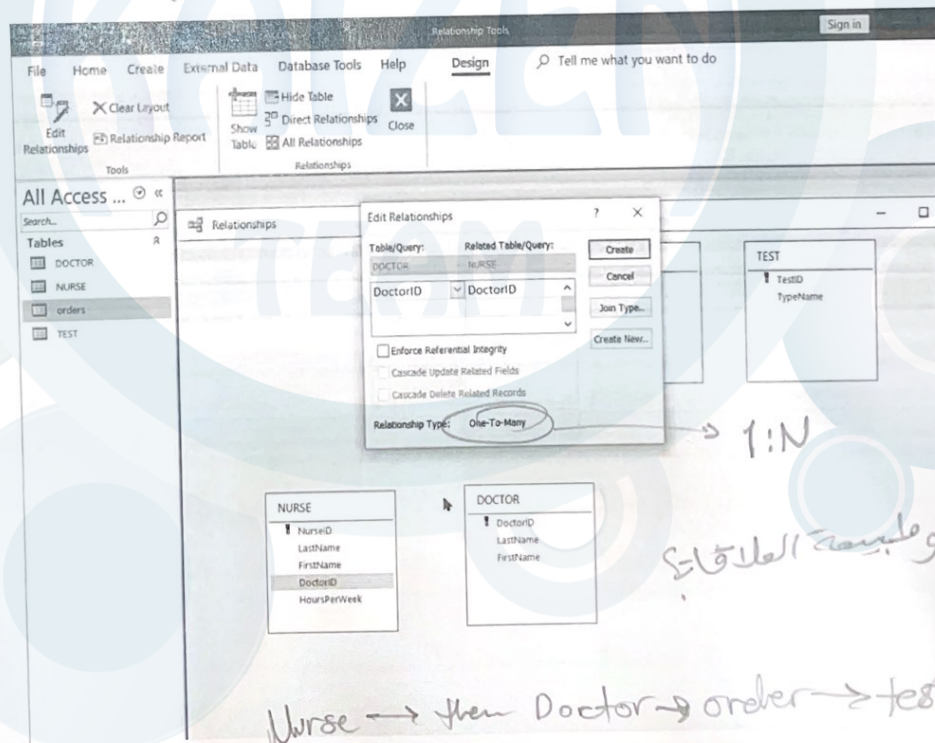
Orders is a Relationship
entity not an item entity so NOT
Capitilized.
Lowercase.





Add the instances of the entities.

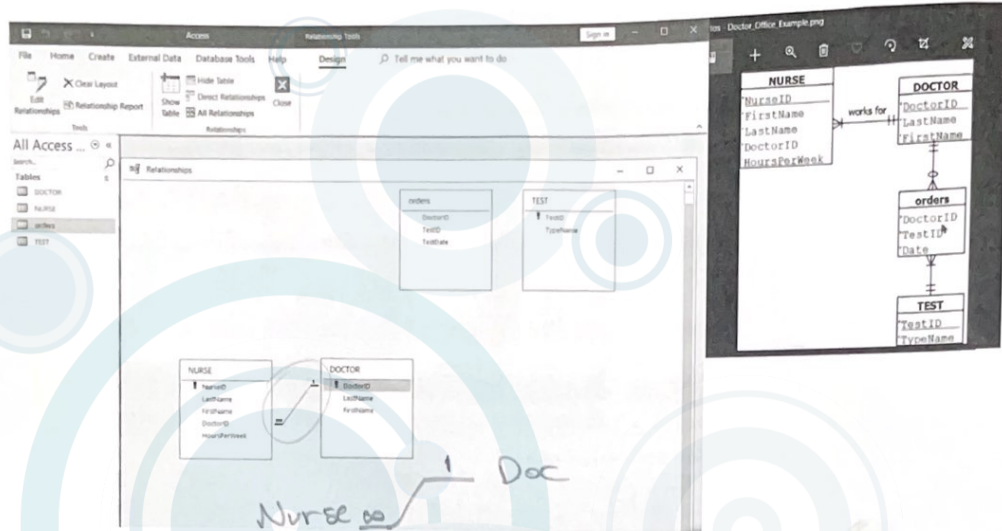
Database ← Relationships / تعرف
 Relationship → shift → select → to add them all.



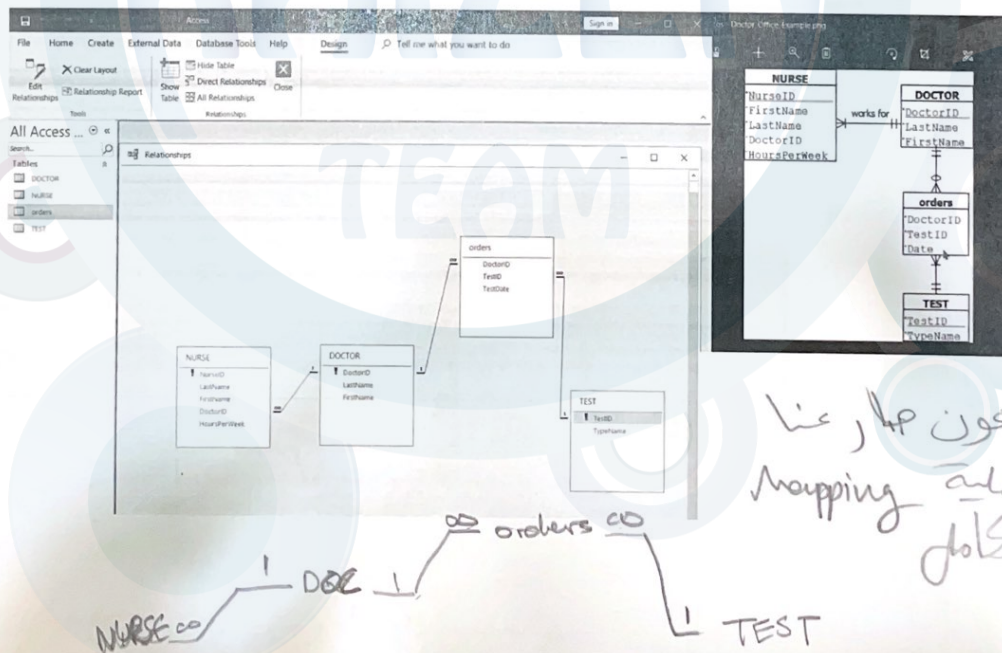
→ 1:N

توطينه العلاقات

Nurse → then Doctor → order → test



شروطية العلاقات إي عندي؟
 أحاول حل سؤال
 محطوظين إنفا زبطت مع الدكتور



هون هار عا
 Mapping عا
 بالكامل

MIS MS ACCESS Forms

How to make forms using Access.

Create → Form Wizard.

Choose a table of ours. to make a form for it.

Select fields.

Choose a layout

Columnar

Tabular

Datasheet

Justified.

One of the adv of Database is
the ease of updating.

View

→ Layout

Form view

Design view.

Property sheet

→ الخواص
التي يملكها

MS Access design tools

Form Design Tools
→ Design.

XXXX

Command Button Wizard.

I want a record Navigator

Go to the Previous record.

Put a meaningful name: Back.

Add another one: Forward.



Hours per week → Day shift or night shift?

What caption do you want for the option group?

Day / Night
○ Day
● Night

XYZ ← icon.

Don't forget to save

Combo Box Wizard.

Using Reports & Using Forms بين الفرق. أسماء الشبكات

↓
Report عبارة عن تقرير
↓
Form عبارة عن تسجيل المعلومات

Report : I take info.
Form : Input info.

أول نوع من أنواع ال Database application

How to make a Report Using Access?

Choose a table.

Create → Report icon.

Standing Fixing the report's design.

الخط أو Margin بهيكلية ينطبق
أي. برا Margin لزم يحصل

يمكن اختيار Nurse ID و Delete
table ما يدي كل الناس تعرف

يمكن ألوان على Format آخر لون ال Header

Format → Shape layout → Transparent.

Page layout → Print view.

يمكن التغيير أشكال ألوان - - -

Designer ~~***~~ يمكن اختيار أو Tables نامة
↓
Add Existing Fields

Format → تعديل على الكتابة

PDF File. يمكن تخزين
Excel sheet أو

ميزة ال Database لها أن
update for any Info I have
It will also be updated in
the report!

Another way to Create a Report!

Report Wizard

1. Choose Table
2. Insert the Fields you want.
3. Any Grouping along w/ the rest?
4. Next.
5. You can sort records up to 4.
6. Layout & Orientation.
7. Put everything within the Page Printing Margin.
8. Print view - to see how it'll be printed.
9. You can add External data.
10. Save it as any type of file, excel, PDF, etc.