



**Credit Hours System**

**CMPN401 ADB**



**Cairo University**

**Faculty of Engineering**

# **Advanced Database Project (Phase-1)**

## **Group (14) Section (2)**

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# System Information:

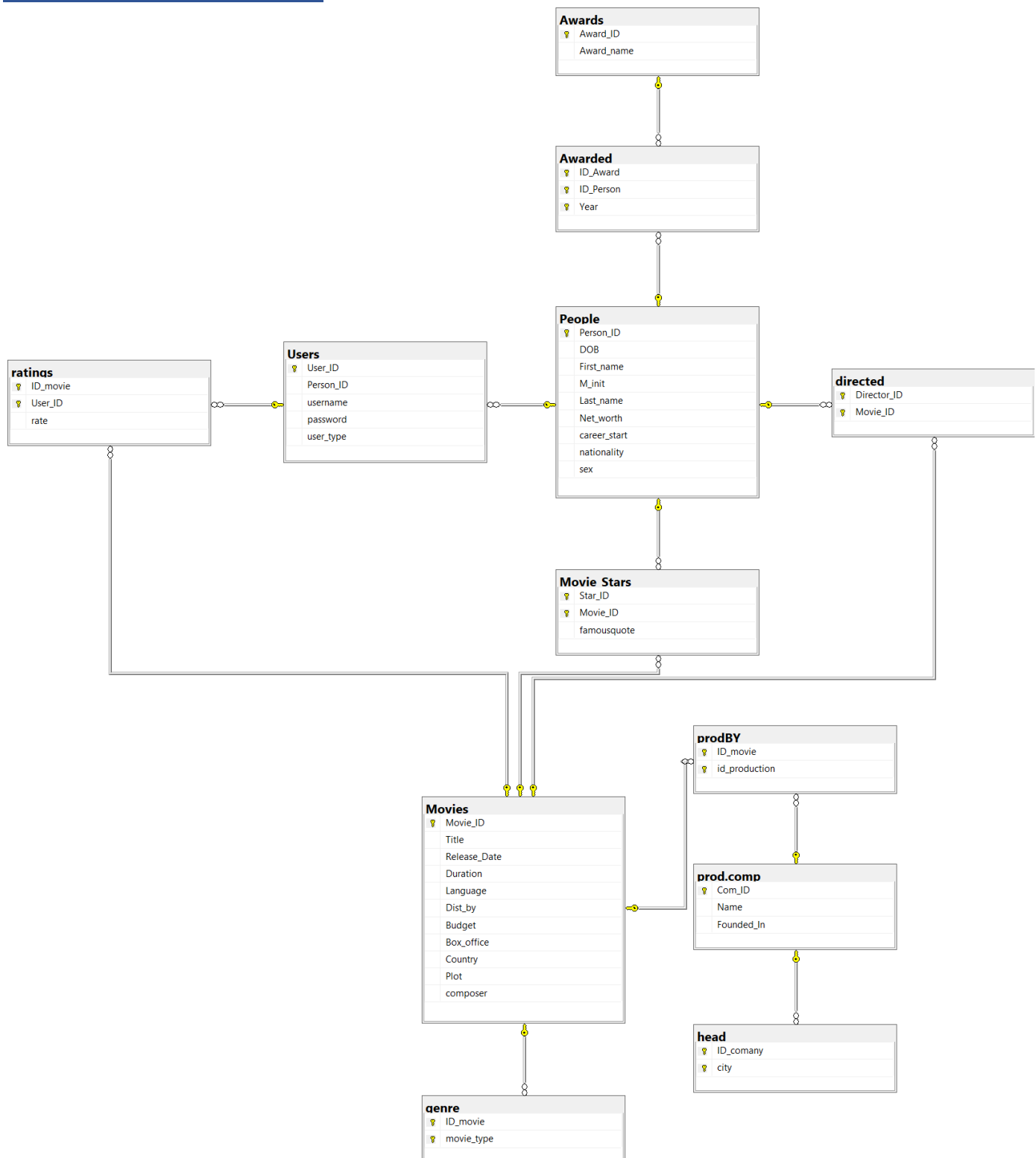
## Legion Y530-15ICH-1060

Processor	Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz 2.21 GHz
Installed RAM	16.0 GB (15.8 GB usable)
Device ID	E1D29568-C057-4924-9877-F22FA337DA7A
Product ID	00325-80000-00000-AAOEM
System type	64-bit operating system, x64-based processor
Pen and touch	No pen or touch input is available for this display
Hard Disk	2 TB HDD + 256 GB SSD

Item	Value
OS Name	Microsoft Windows 10 Home
Version	10.0.18363 Build 18363
Other OS Description	Not Available
OS Manufacturer	Microsoft Corporation
System Name	MARKLEGIONIAN
System Manufacturer	LENOVO
System Model	81LB
System Type	x64-based PC
System SKU	LENOVO_MT_81LB_BU_idea_FM_Legion Y530-15ICH-1060
Processor	Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz, 2208 Mhz, 6 C...
BIOS Version/Date	LENOVO 9VCN12WW, 8/6/2018
SMBIOS Version	3.0
Embedded Controller V...	1.12
BIOS Mode	UEFI
BaseBoard Manufacturer	LENOVO
BaseBoard Product	LNVNB161216
BaseBoard Version	SDK0R32862 WIN
Platform Role	Mobile
Secure Boot State	On
PCR7 Configuration	Elevation Required to View
Windows Directory	C:\WINDOWS
System Directory	C:\WINDOWS\system32
Boot Device	\Device\HarddiskVolume3
Locale	United States
Hardware Abstraction L...	Version = "10.0.18362.1533"

Time Zone	Egypt Standard Time
Installed Physical Mem...	16.0 GB
Total Physical Memory	15.8 GB
Available Physical Mem...	4.97 GB
Total Virtual Memory	20.9 GB
Available Virtual Memory	3.54 GB
Page File Space	5.02 GB
Page File	C:\pagefile.sys
Kernel DMA Protection	Off
Virtualization-based se...	Not enabled

# ER Diagram:



# Database Report:

Name	Identitycolumn	indexes	Main Key	Pages	Rownum	Min recordsize	MaxRecordSize	AvgrecordSize	ForiginKeys
People	yes	1	yes	19004	2M	57	89	74	1
Awarded	yes	1	yes	4724	1M	19	19	19	2
Awards	yes	1	yes	7	1k	31	60	46	0
directed	yes	1	yes	1634	500k	15	15	15	2
genre	yes	1	yes	4251	1M	18	23	21	1
users	yes	1	yes	7349	1M	25	87	57	1
ratings	yes	1	yes	3943	1M	19	19	19	1
prodBY	yes	1	yes	3288	1M	15	15	15	2
Movies	yes	1	yes	9616	2M	37	90	75	0
Stars	yes	1	yes	4936	1.5M	15	15	15	2
prodCom	yes	1	yes	3897	1M	10	50	32	0

# NOSQL:

MongoDB Compass - localhost:27017/Movies

ConnectViewHelp

Local

4 DBS12 COLLECTIONS

FAVORITE

HOST  
localhost:27017

CLUSTER  
Standalone

EDITION  
MongoDB 5.0.5 Community

Filter your data

Movies

awardedTo

awards

directed

genre

movies

people

producedBy

production

ratings

stars

users

admin

config

local

Collections

CREATE COLLECTION

Collection Name	Documents	Avg. Document Size	Total Document Size	Num. Indexes	Total Index Size	Properties
awardedTo	1,000,000	61.0 B	61.0 MB	1	10.8 MB	
awards	1,000	84.4 B	84.4 KB	1	24.6 KB	
directed	1,000,000	55.0 B	55.0 MB	1	10.8 MB	
genre	1,000,000	59.2 B	59.2 MB	1	11.1 MB	
movies	1,000,000	183.6 B	183.6 MB	1	10.8 MB	
people	1,429,604	201.6 B	288.2 MB	1	15.7 MB	
producedBy	1,000,000	55.0 B	55.0 MB	1	11.1 MB	
production	1,000,000	77.5 B	77.5 MB	1	10.8 MB	
ratings	1,000,000	59.0 B	59.0 MB	1	10.8 MB	
stars	1,500,000	56.3 B	84.4 MB	1	6.8 MB	
users	1,000,000	133.9 B	133.9 MB	1	11.0 MB	

# MongoDB Collections:

## Movies:

```
> { "_id": ObjectId("61cdc9253e071583312786e9"),  
  "Movie_ID": "1",  
  "Title": "movie1",  
  "Release_Date": "1990-07-21T00:00:00.000+00:00",  
  "Duration": 67,  
  "Language": "Chinese",  
  "Box_office": 164434,  
  "Country": "Pakistan",  
  "composer": "Chadwick Booth" }
```

## Movie stars:

```
> { "_id": ObjectId("61cdc9b13e0715833136c92b"),  
  "Star_ID": "1",  
  "Movie_ID": 1 }
```

## Director:

```
> { "_id": ObjectId("61cdbda43e07158331090263"),  
  "ID_movie": 1,  
  "id_production": 1 }
```

## Ratings:

```
{ "_id": ObjectId("61cdb5353e07158331a6dede"),  
  "ID_movie": 1,  
  "User_ID": 1,  
  "rate": 1 }
```

## Users:

```
> _id: ObjectId("61cc8d64d7300baf0348bc70")  
User_ID: "1"  
Person_ID: 727  
username: "Corey52"  
password: "R9F3R"  
user_type: 1
```

## Genre:

```
_id: ObjectId("61cdb7393e07158331db37b2")  
ID_movie: 1  
movie_type: "Comedy"
```

## Production company:

```
_id: ObjectId("61cdb9863e07158331ea7dde")  
Com_ID: 1  
Name: "Keri"  
Founded_In: "1985-08-04"
```

## ProducedBy:

```
> _id: ObjectId("61cdb9c53e07158331f9c020")  
ID_movie: 1  
id_production: 1
```



## People:

```
_id: ObjectId("61cdb5fe3e07158331c5674c")
Person_ID: 1
DOB: "2020-07-19"
First_name: "Irene"
M_init: "Mr"
Last_name: "Flowers"
Net_worth: 178297446
career_start: "1994-03-04"
nationality: "British"
sex: "Male"
```

## Awards:



```
_id: ObjectId("61cdb59c3e07158331b62120")
Award_ID: 1
Award_name: "Broadcast Film Critics Association Awards"
```

## Awarded:



```
_id: ObjectId("61cdb5b83e07158331b6250a")
ID_Award: 1
ID_Person: 1277
Year: 2017
```