DS-CN-DBMS

> Course Expectation

/ DBMS

Network Model Computer Nelwork

## Computer Networks

# Network > It is a group or system of interconnected

people or items. Computers connected wide

cachother with Cables or wireless is called

computer networks.

# Internet -> In a nutshell, internet is a network of computer networks. Complex web of unterconnected computer networks.

History Of Internet advanced research project of years 1910's 1960'5-70'5 1957 ARPA > 1490'S Sovient TCP/IP CEKN 20 Communicata Syste for Sownik In terned ARPA's Compute w falk Tim Bernor La 1969 ARPANET WWWMOSAC

Protocols

Vitwork_								
A Probable a	u (	<b>L</b> S	ન	of	rules	and	ry ulati	ino selep
		and Shave						

EN -> HTTP, UDP, TCP, SMTP etc

### Parkets

in order	ю	show	data	, w	Cani	send	big chemb
g data	own	th n	etwark:	<b>S</b> o	we c	livida	the data
in sma	ller	Chunk	b, this	د ٤	mall	Chunks	an alle
as fack	<u>t.                                    </u>						

#### Address

Sending messages over the retworks reprieve the destribition détails. This détail uniquely identify the end system is called as address.

#### Ports

Any machine could be running many network apps.

In order to distinguish these apps for receiving messages

me ans ports. (port rumber)

1P-address + Port you get the fackets to specific from or Port belps

4 Every process has 16 bit port rumber 0-2" = 65535 - well known boots ★ 0-1023 ~ 8x → Part 80 -> http 1014 443 -> ht

A 1024 - 49152 -> Registored Ports They are used by specific, potentially proprietor apps / process that are known bent not system defined. Sq1 server > 1433

may: 27017

\* 49152-65535 -> Gramic ports

## Access Networks

These are media voing which end systems connect to the internet.

He Network Interface Adapter -> It enables a computer to attach to a network. As there are different type of networks, It acts as a single suit to connect to any networks.

# DSL (Digital Subscriber Line)

JOSL uses the existing telephone groundwork lines fer internet connection. Cremently DSL is prouded by Lane company which supplies telephone service.

→ 1SP (internet Service Provider) → It is just a company
that provides end users internet. Ex-> AT&T

Network Protocol Stack OSI (71ayon) TCP/1P (slayer) Application Proentation Application Transport Sessim Tromsport Network Network Pata Link Data Link Physical اله:نام

Applicater loyer > comail seur, chat seur, <u>loon</u>

Presentation -> hresentation of data, compression
encryption

Session -> Usus session manyor

Transport > Divides big chuk of data Cony fra about to small duks. Sompl thoe chuh. Network -> how rouly of points well be don a Data luk layer » error / flow control, multplaning & demultiplen, handle coldrey physical

