350101
GENERAL INFORMATION & COMMUNICATION TECHNOLOGY I (GENICT-1)

- DATABASES & WEB SERVICES-

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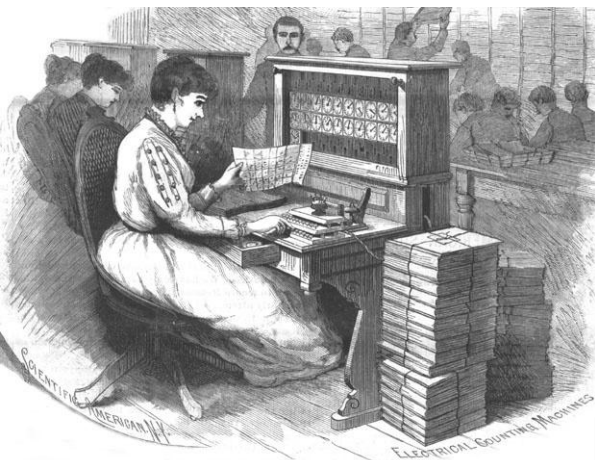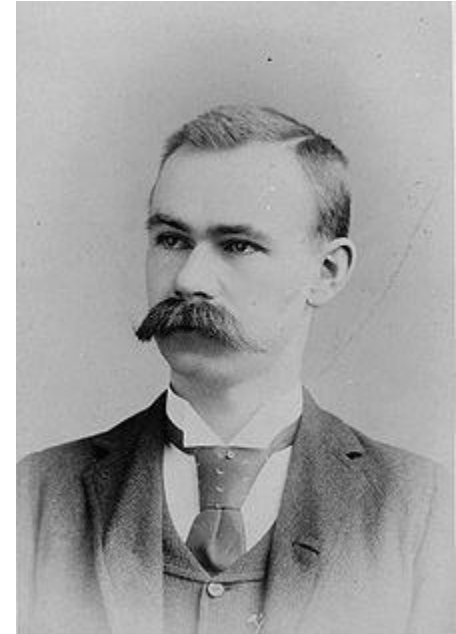office: room 88, Research 1

This Course (Part)

- Objective:

  - Introduction to core concepts from DB & WS

  - „having seen that once"

  - Some simple, but useful IT practice

  - Not: fast track to Web programmer, database specialist

- Grade components

  - Exam: 80% - last session of this phase, during course time

  - Homeworks: 20%

  - PS:
    - *Homework extensions – no need to try*
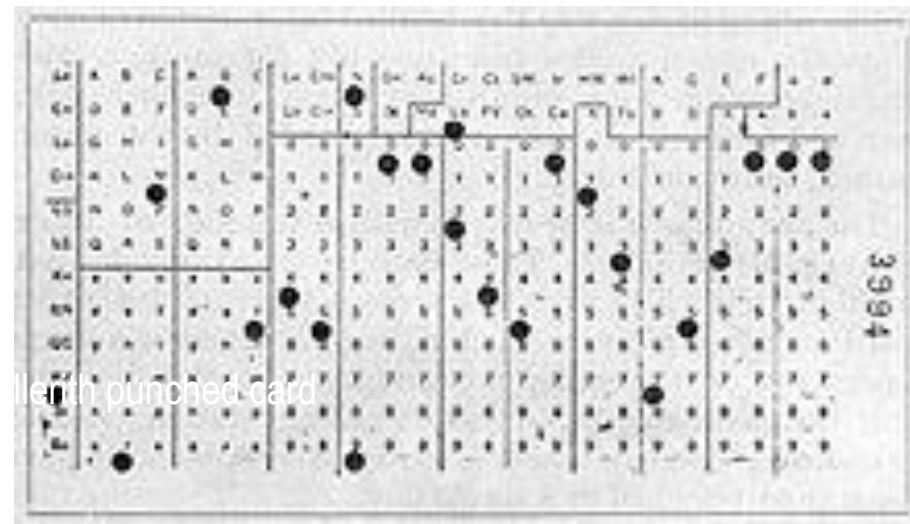   - *Exam makeups – nothing you want*

Roadmap

- databases

- querying databases

- more about databases

- Web services

- database & Web services (in)security

- wrap-up & exam

Where It All Started

- 1890 census on US population of 62,947,714

  - announced after only six weeks of processing

- Hollerith „tabulating machine and sorter"

  - Hollerith card puncher, used by United States Census Bureau

- Tabulating Machine Company
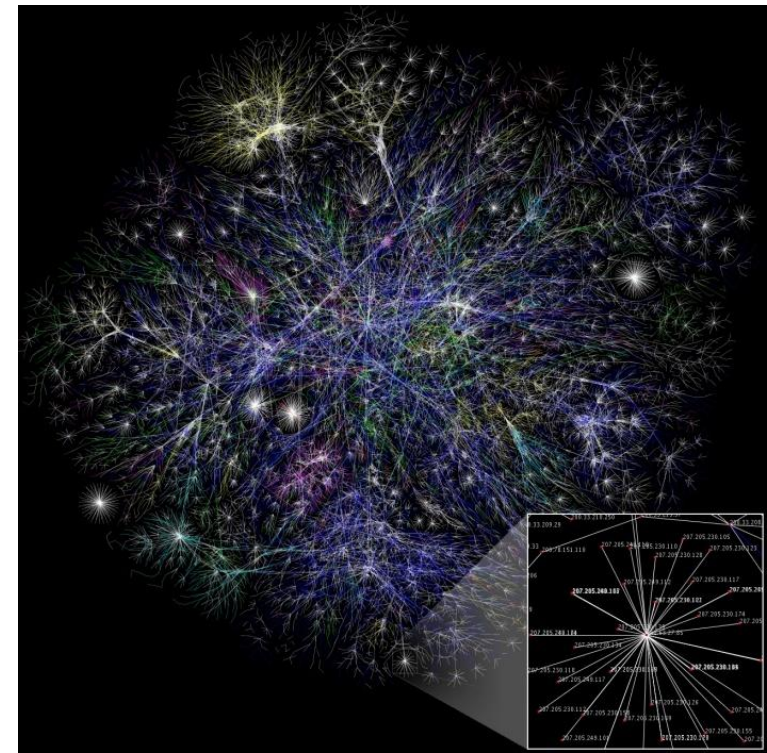 → International Business Machines Corporation

[images: Wikipedia]

Hollerith punched card

History: Internet & Web

- 1960s Internet as (D)ARPA project: fault-tolerant, heterogeneous WAN (cold war!)
  - *telnet; ftp; mail; news*

- 1976   Queen Elizabeth sends first email. first state leader.

- 1980   Berners-Lee at CERN writes notebook program to link arbitrary nodes

- 1990   Berners-Lee begins hypertext GUI browser+editor, dubs it "WorldWideWeb"; first web server developed

- 1991   May 17 – general release of WWW on central CERN machines

- 1994   > 200 web servers by start of year

- 2012   May: 200m Web servers [Yahoo]

[image: Intel]