The School Scenario

You are a systems developer who has been asked to design and build a relational database for a local school.

A school operates a number of microcomputer systems. The decision has been taken to integrate and rationalise record keeping regarding the computers, their spares, optional peripherals and software. There are several potential users of the information.

The Head Teacher

 Requires information on utilisation levels of the systems in order to confirm the effectiveness of the school's purchasing and deployment of resources.

<u>Deputy Head</u> (school finance officer)

 Needs access to a record of items of value in the school for insurance purposes. Software is not insured as it covered by other agreements.

The Head of IT

- Needs access to warranty status in order to progress warranty claims.
- Needs to know where each system and peripheral is physically located within the school.
- Needs to record failure and repair data for all systems, components and peripherals.
- Needs access to Vendor information to obtain spares, support and new equipment.

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Subject teachers

 Need to know which (if any) computers have suitable software and peripherals for their teaching needs

Data Available from existing record cards

Microcomputer Record Card

Make: Evesham Tech Model: Axis 64 STR

Serial number: SCR023-03

Supplier: ... College Computers Ltd

Purchase price: ...£649 inc VAT Purchase date: ...21/9/03

Processor type/speed: AMD Athlon, 2 GHz

Hard disk size: 100 GB

BUS types: 4 x PCI, 1 x AGP (4x), 4 x USB2

Fitted expansion cards

Туре	Make	Supplier	Serial No	Purchased	Price
Graphics	nVidia	PCWORLD	3474236	20/8/04	£306
Sound	Creative	PCWORLD	SC445566	12/6/02	£72.56
Network	Acton	Maplins	Nf3422	15/3/03	£10

Monitor:

Make: Evesham Serial No: M384432 Type: Flat screen

Screen size: 17in Supplier: College Computers Ltd

Purchased: 12/8/02 **Price:** £305.00

Peripherals

Make: Epson Model: Stylus Color 800

Type: Inkjet Printer Serial number: P459923

Supplier PCWORLD purchase date 14/5/04 Price £145.00

Make: HP Model: Scanjet 2400

Type: Scanner Serial number: S459923

Supplier PCWORLD purchase date 14/5/04 Price £145.00

Make: Model:

Type: Serial number:

Supplier purchase date Price

LOCATION: Room C21

Maintenance Activity Record Card

Item type: Graphics Card Item serial number: 3474236

Repair date: 2/2/05 **Warranty y/n:** yes

Nature of fault:

Malfunctioning output port

Software Record Card

Title: StatAn-Pro Version: v3.2 Supplier: PCWorld

Purchase date: 12/4/03 **Price:** £200.53

Category: Statistics Analysis Minimum memory: 128 MB

Special peripherals: None

School subject area(s):

Computing, Maths, Social Science, Psychology

Site license y/n: Yes Copies on site: 10

Installed on: (enter computer serial number)

 SCR023-01,
 SCR023-02,
 SCR023-03,

 SCR025-01,
 SCR025-02,
 SCR025-03,

 SCR026-01,
 SCR027-02,
 SCR028-03,

SCLib-01

School's specialist on the package (if any): Joe Bloggs

Data Available from other Sources

The school office keeps the paperwork relating to each purchase, which has the suppliers' details, and warranty conditions included.

There are a fixed number of teaching hours in a school year. Each Department Head (one per subject area) presently advises the Head Teacher how many computers they use and for how many hours.