**Lab Management Database Tables (proposed designs)**

**Notes**

* **Building, Floor, Room, Staff, Supplier, SupplierContact, Equipment and RoomEquipmentLink tables are not finalised - they need amendments.**
* **Tables may be subject to change after discussion with Client.**
* **Changes have been made to existing tables; field name words have been separated to make them easier to read in design stage.**
* **Staff&Students have been merged into a singular User Table. (Queries can be done to separate staff for display on contacts page)**

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| --- | --- |
| **Deliveries** | |
| Order ID | Nvarchar |
| New Request ID (FK) | Nvarchar |
| Date Delivered | Date |
| Delivered /  Outstanding | Nvarchar |
| Notes | Nvarchar |

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| --- | --- |
| **Campus** | |
| Campus Name | Nvarchar |
| Address | Nvarchar |
| Postcode | Nvarchar |

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| --- | --- |
| **Buildings** | |
| Building Name | Nvarchar |
| Building image | Binary |
| Campus Name (FK) | Nvarchar |

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| **Forms and links** | |
| Form ID | Nvarchar |
| Form name | Nvarchar |
| Form type | Nvarchar |
| URL | Nvarchar |

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| --- | --- |
| **Chemicals** | |
| Chemical ID | Int |
| Chemical Name | Nvarchar |
| Formula | Nvarchar |
| Location | Nvarchar |
| Units (volume, weight) | Nvarchar |
| Trigger Level | Double |
| Chemical Stock Level | Int |
| Supplier | Nvarchar |
| Supplier Product Code | Nvarchar |
| CAS Code | Nvarchar |
| Batch Code | Nvarchar |
| Purity/Grade | Nvarchar |
| Hazards | Nvarchar |
| Purpose | Nvarchar |
| Expiry Date | Date |
| Reviewed |  |

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| **RoomChemicalLink** | |
| Room Code(FK) | String |
| Chemical ID (FK) | Int |

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| **Equipment** | |
| Equipment ID | Int |
| Equipment Name | Nvarchar |
| Room Code(FK) | String |
| Staff ID (FK) | Int |
| General Info | Nvarchar |
| Documentation (Nullable) | URL - Nvarchar |

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| --- | --- |
| Logbook |  |
| Logbook ID | Int |
| Equipment ID (FK) | Int |
| Date | Date |
| User ID | Nvarchar |
| Comment | Nvarchar |

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| --- | --- |
| **User** | |
| Email | Nvarchar |
| First Name | Nvarchar |
| Surname | Nvarchar |
| Role | Nvarchar |
| Picture | Binary |

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| --- | --- |
| **Existing Resource** | |
| Existing Request ID | Int |
| User ID (Email) (FK) | Nvarchar |
| Requester Name | Nvarchar |
| Chemical ID (FK) | Int |
| Equipment ID (FK) | Int |
| StaffID (FK) | Nvarchar |
| Chemical Quantity | Int |
| Equipment Quantity | Int |
| Staff Time Required | Double (check if time should be in hours (int) only) |

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| --- | --- |
| **New Request** | |
| New Request ID | Nvarchar |
| Email (FK) | Nvarchar |
| Item Code (FK) | Int |
| Quantity | Int |
| Total Price | Double |
| Budget code | Int |
| Deliver Site | Nvarchar |
| Date | Date |
| Web Link / Item URL | Nvarchar |
| COSHH Assessment Required? | Nvarchar |
| Request accepted / rejected | Nvarchar |
| Rejected Comment (Nullable) | Nvarchar |

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| **Items** | |
| Item Code | Int |
| Item Description | Nvarchar |
| Cost | Double |
| Supplier ID (FK) | Int |

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| --- | --- |
| **Room** | |
| Room Code | Nvarchar |
| Room Name | Nvarchar |
| Floor ID(FK) | Nvarchar |
| Timetable (nullable) | URL - Nvarchar |
| Documentation (nullable) | URL - Nvarchar |
| Hotspot Point One X | Double |
| Hotspot Point One Y | Double |
| Hotspot Point Two X | Double |
| Hotspot Point Two Y | Double |

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| --- | --- |
| **RoomEquipmentLink** | |
| Room Code (FK) | Nvarchar |
| Equipment ID (FK) | Int |

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| --- | --- |
| **Adverse Events** | |
| Adverse Event ID | Nvarchar |
| Event Type | Nvarchar |
| Event Description | Nvarchar |
| Room Code (FK) | String |
| Date | Date |
| Time | Time |

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| --- | --- |
| **Floor** | |
| Floor ID | Int |
| Floor Name | Nvarchar |
| Map | Binary? |
| Building Name | Nvarchar(FK) |

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| **Staff** | |
| Email | Nvarchar |
| Role | Nvarchar |