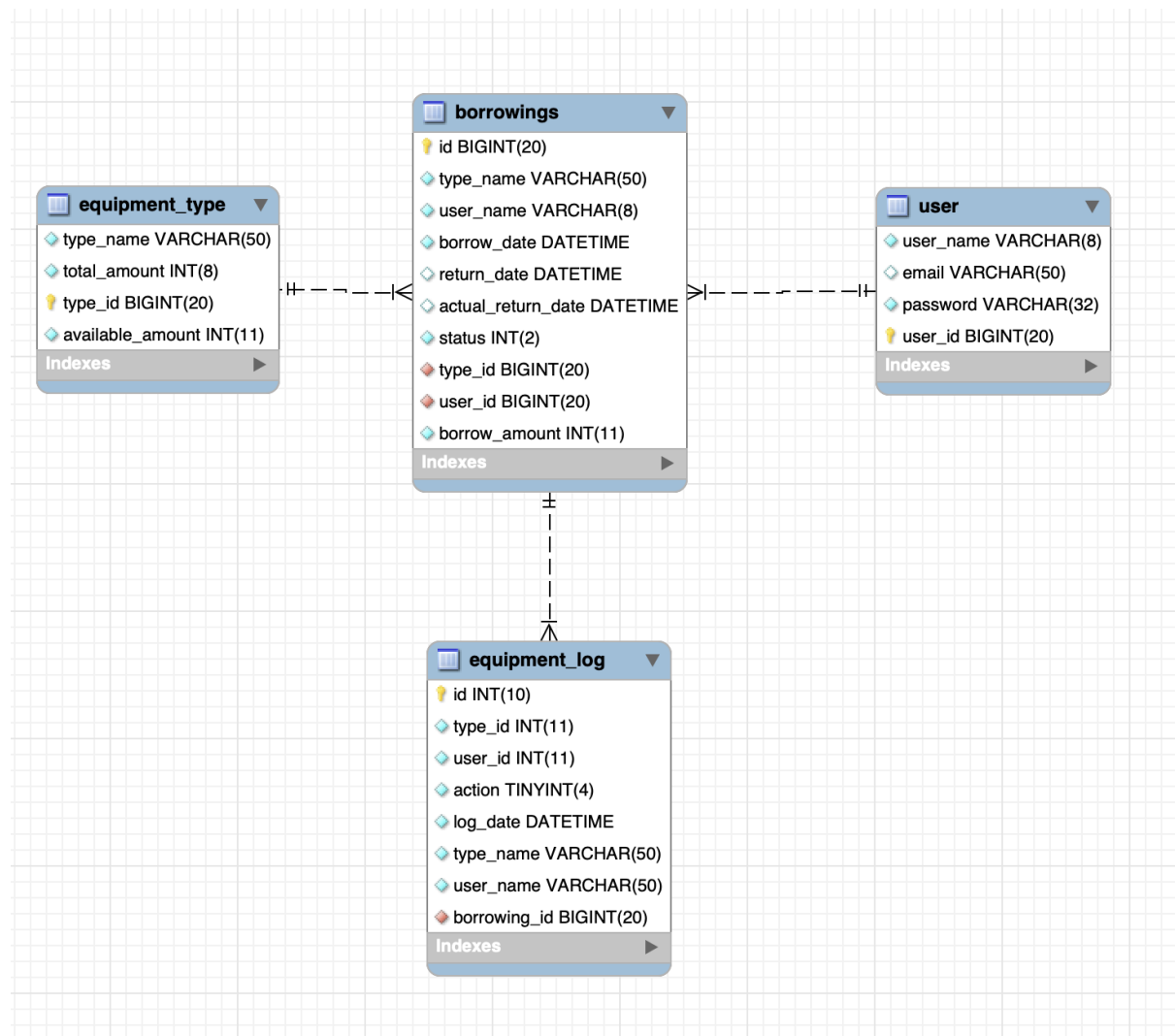


Labman Database EER description(Milestone 1)



Tables and fields

Equipment table

- id (integer, primary key): The unique identifier of the equipment.
- name (string): The name of the equipment.
- total_amount (integer): The total quantity of this equipment.
- available_amount (integer): The quantity of this equipment available.

Users table

- id (integer, primary key): The unique identifier of the user
- name (string): The name of the user, we use the student id.
- email (string): The email address of the user, we append '@adelaide.edu.au' following the name..
- password (string): The password of the user.

Borrowings table

- id (integer, primary key): The unique identifier of the borrowing record.

- equipment_name (integer, foreign key): The ID of the borrowed equipment.
- borrow_amount (integer): The quantity of this borrowing..
- user_id (integer, foreign key): The ID of the user who borrowed the equipment.
- borrow_date (datetime): The date and time when the equipment was borrowed.
- return_date (datetime): The expected return date of the equipment.
- actual_return_date (datetime): The date when the equipment was actually returned.
- status (int): The status of the borrowing.

, the 1 - 6 meaning different status of equipment, detail as followed:

- 1- Available: The equipment is currently in lab and can be checked out by a patron.
- 2 - Checked out: The equipment has been borrowed by a patron and is not currently available for check-out.
- 3 - On hold: A patron has requested the equipment and it is being held for them to check out.
- 4 - In transit: The equipment is in the process of being transferred from one branch lab to another.
- 5 - Missing: The equipment cannot be found in lab and is presumed to be lost or stolen.
- 6 - Damaged: The equipment has been damaged or vandalized and is temporarily unavailable.

Equipment Log table

- id (integer, primary key): The unique identifier of the equipment log.
- type_id (integer, foreign key): The type ID of the equipment .
- type_name(string): the type name of the equipment
- user_id (integer, foreign key): The ID of the user who borrowed or returned the equipment.
- user_name(string): the student id.
- action (string): The action performed on the equipment, whether it was borrowed or returned.
- log_date (datetime): The date and time when the action was performed.