Diagram Documentation

This database schema is for managing
students, their checkouts, and products
in a donation clothing system

student

Field	Description	Type	Default	Other
student_id	Primary key for the student	int		PK
gender	Gender of the student	VARCHAR(20)		
first_name	First name of the student, indexed for faster searches	string		INDEX
last_name	Last name of the student	string		
email	Email address of the student	string		
program	Program the student is enrolled in (nullable)	string		NULLABLE

item

Field	Description	Type	Default	Other
item_id	Primary key for the item	int		PK
item_name	Unique product name	varchar(200)		UNIQUE
item_cat	Category of the product	varchar(20)		
item_size	Size of the product	varchar(20)		

check_out

Field	Description	Type	Default	Other
check_out_id	Primary key for the checkout record	int		PK
student_id	Foreign key linking to the student table	int		FK
date	Date of the checkout, indexed for foreign key reference	datetime		FK, INDEX
item_id	Foreign key linking to the item table	int		FK
quantity	Quantity checked out	int		

inventory

Field	Description	Type	Default	Other
inv_id	Primary key for inventory record	int		PK
item_id	Foreign key linking to the item table	int		FK

Field	Description	Type	Default	Other
quantity	Quantity available in inventory	int		

staff

Field	Description	Type	Default	Other
staff_id	Primary key for the staff member	varchar(20)		PK
first_name	First name of the staff member	varchar(20)		
last_name	Last name of the staff member	varchar(20)		
position	Job position of the staff member	varchar(100)		
hourly_rate	Hourly rate of the staff member	decimal(5,2)		

shift

Field	Description	Type	Default	Other
shift_id	Primary key for the shift	varchar(20)		PK
day_of_week	Day of the week	varchar(10)		
start_time	Start time of the shift	time		
end_time	End time of the shift	time		

rota

Field	Description	Type	Default	Other
row_id	Primary key for rota record	int		PK
rota_id	Unique rota identifier	varchar(20)		
date	Foreign key linking to the checkout date	datetime		FK
shift_id	Foreign key linking to the shift table	varchar(20)		FK
staff_id	Foreign key linking to the staff table	varchar(20)		FK