Database Project Deliverable 2

ITCS 6160

Professor Thompson

Rishab

Het

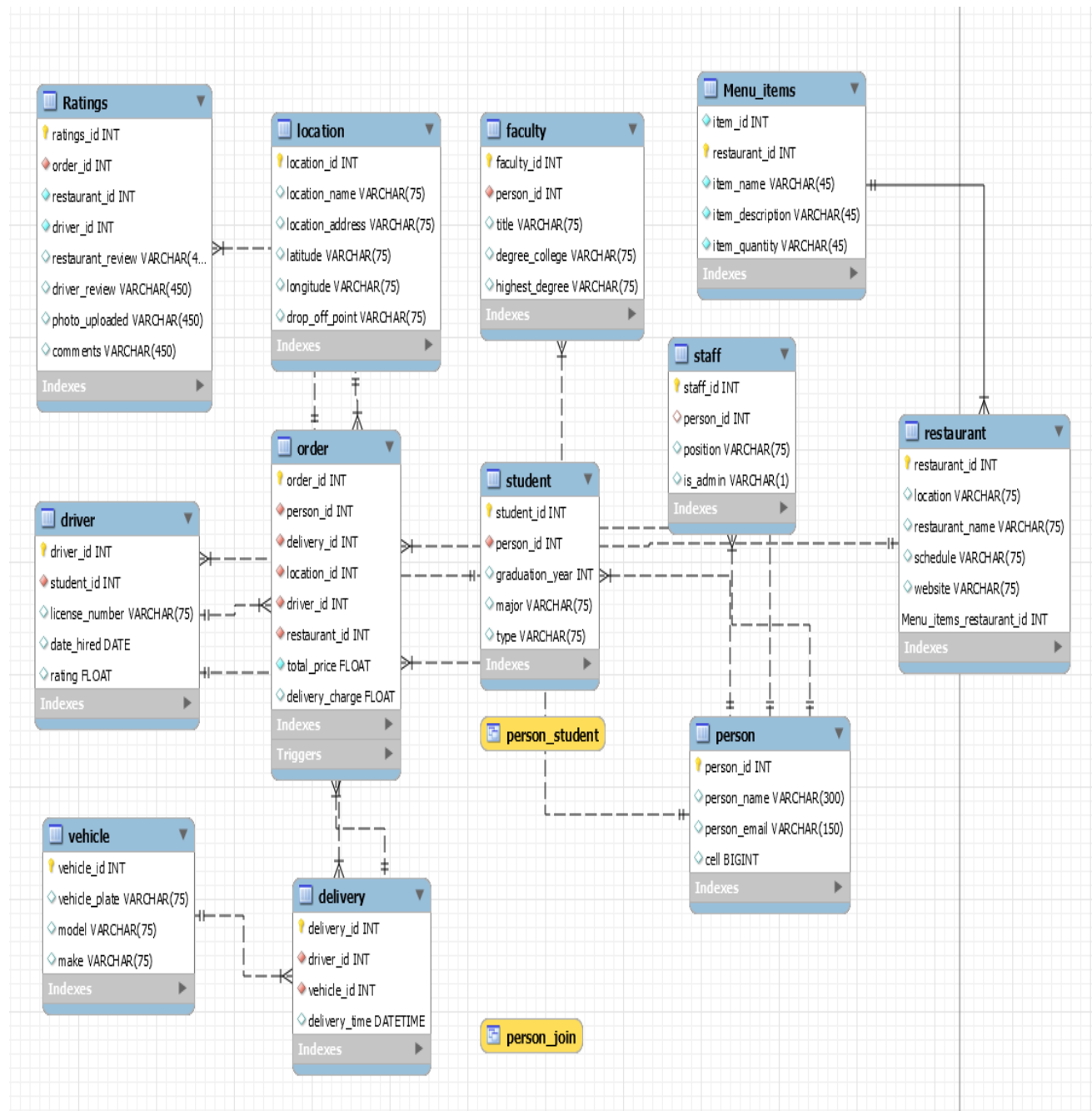## Parth

Tharani

Business Rules

- Person can be a Student, Faculty or Staff.
- Only students can be drivers.
- Each person must be a registered user.
- Each person must place an order before rating a restaurant.
- A delivery must be made before a person can rate a driver.
- A delivery must be made before a person can rate a restaurant.
- Each person can rate the delivery only one time per order.
- Each person can rate the restaurant only one time per order.
- Administrators can view driver ratings and restaurant ratings.
- The ratings will be based on a 5-level rating system.
- Each restaurant supplies one to many items.
- Restaurants are limited to offer up to 10 items.
- Each order should have one to many items.
- Order can only be from one restaurant only
- Order can only be from one person only.
- Each order will have an optional rating.

Data Dictionary

Table	Field Name	Data Type	PK	FK	Not Null	Description
Driver	driver_id	INT	Y		Y	Driver ID
Driver	student_id	INT		Y		Student ID
Driver	license_number	VARCHAR(75)				Driver License Number
Driver	date_hired	DATE				Hired Date if Driver
Driver	rating	FLOAT				Ratings of Driver
Faculty	faculty_id	INT	Y		Y	Faculty ID
Faculty	person_id	INT		Y		Person ID
Faculty	title	VARCHAR(75)				Itile of Faculty
Faculty	degree_college	VARCHAR(75)				College Degrree of Faculty
Faculty	highest_degree	VARCHAR(75)				Highest Degree of Faculty
Location	location_id	INT	Y		Y	Location ID
Location	location_name	VARCHAR(75)				Location Name
Location	location_address	VARCHAR(75)				Location Adress
Location	latitude	VARCHAR(75)				Latitude
Location	longitude	VARCHAR(75)				Longitude
Location	drop_off_point	VARCHAR(75)				Drop off point
Person	person_id	INT	Y		Y	Person ID
Person	person_name	VARCHAR(75)				Person Name
Person	person_email	VARCHAR(75)				Email
Person	cell	bigint(20)				Phone Number Of Person
Restaurant	restaurant_id	INT	Y		Y	Restaurant ID
Restaurant	location	VARCHAR(75)				Location Of Restaurant
Restaurant	restaurant_name	VARCHAR(75)				Name of Restaurant
Restaurant	schedule	VARCHAR(75)				Schedule Of Restaurant
Restaurant	website	VARCHAR(75)				Website Of Restaurant
Staff	staff_id	INT	Y		Y	Staff ID
Staff	person_id	INT		Y		Person ID
Staff	position	VARCHAR(75)				Position Of Staff
Staff	is_admin	VARCHAR(75)				Admin of Staff
Student	student_id	INT	Y		Y	Student ID
Student	person_id	INT		Y		Person ID
Student	graduation_year	INT				Graduation YEAR
Student	major	VARCHAR(75)				Major Of Student
Student	type	VARCHAR(75)				Type Of Student
Vehicle	vehicle_id	INT	Y		Y	Vehicle ID
Vehicle	vehicle_plate	VARCHAR(75)				Plate of Vehicle
Vehicle	model	VARCHAR(75)				Model Of Vehicle
Vehicle	make	VARCHAR(75)				Make Of Vehicle
Order	order_id	INT	Y		Y	Order ID
Order	person_id	INT		Y		Person ID
Order	delivery_id	INT		Y		Delivery ID

Table	Column	Type				Description
Order	location_id	INT		Y		Location ID
Order	driver_id	INT		Y		Driver ID
Order	restaurant_id	INT		Y		Restaurant ID
Order	total_price	FLOAT				Total PRICE
Order	delivery_charge	FLOAT				Delivery CHARGE
Ratings	ratings_id	INT	Y		Y	Ratings ID
Ratings	order_id	INT		Y		Order ID
Ratings	restaurant_id	INT		Y		Restaurant ID
Ratings	driver_id	INT		Y		Driver ID
Ratings	restaurant_review	VARCHAR(450)				Restaurant_Review for the order
Ratings	driver_review	VARCHAR(450)				Driver_Review for the order
Ratings	photo_uploaded	VARCHAR(450)				Photo_Uploaded for the order
Ratings	comments	VARCHAR(450)				Comments for the order
Menu_items	item_id	INT			Y	Item id
Menu_items	restaurant_id	INT	Y	Y	Y	Restaurant id
Menu_items	item_name	VARCHAR(45)			Y	Name of the food item
Menu_items	item_description	VARCHAR(45)			Y	Ingredients in the item, it's description
Menu_items	item_quantity	VARCHAR(45)			Y	Quantity available/ordered

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Ratings
- ratings_id INT
- order_id INT
- restaurant_id INT
- driver_id INT
- restaurant_review VARCHAR(4...
- driver_review VARCHAR(450)
- photo_uploaded VARCHAR(450)
- comments VARCHAR(450)
- Indexes

location
- location_id INT
- location_name VARCHAR(75)
- location_address VARCHAR(75)
- latitude VARCHAR(75)
- longitude VARCHAR(75)
- drop_off_point VARCHAR(75)
- Indexes

faculty
- faculty_id INT
- person_id INT
- title VARCHAR(75)
- degree_college VARCHAR(75)
- highest_degree VARCHAR(75)
- Indexes

Menu_items
- item_id INT
- restaurant_id INT
- item_name VARCHAR(45)
- item_description VARCHAR(45)
- item_quantity VARCHAR(45)
- Indexes

staff
- staff_id INT
- person_id INT
- position VARCHAR(75)
- is_admin VARCHAR(1)
- Indexes

order
- order_id INT
- person_id INT
- delivery_id INT
- location_id INT
- driver_id INT
- restaurant_id INT
- total_price FLOAT
- delivery_charge FLOAT
- Indexes
- Triggers

driver
- driver_id INT
- student_id INT
- license_number VARCHAR(75)
- date_hired DATE
- rating FLOAT
- Indexes

student
- student_id INT
- person_id INT
- graduation_year INT
- major VARCHAR(75)
- type VARCHAR(75)
- Indexes

restaurant
- restaurant_id INT
- location VARCHAR(75)
- restaurant_name VARCHAR(75)
- schedule VARCHAR(75)
- website VARCHAR(75)
- Menu_items_restaurant_id INT
- Indexes

person_student

person
- person_id INT
- person_name VARCHAR(300)
- person_email VARCHAR(150)
- cell BIGINT
- Indexes

vehicle
- vehicle_id INT
- vehicle_plate VARCHAR(75)
- model VARCHAR(75)
- make VARCHAR(75)
- Indexes

delivery
- delivery_id INT
- driver_id INT
- vehicle_id INT
- delivery_time DATETIME
- Indexes

person_join

Data

Ratings:

ratings_id	order_id	restaurant_id	driver_id	restaurant_review	driver_review	photo_uploaded	comments
1	1	1	1	4	4	NULL	Nice
2	2	2	2	4	4	NULL	Awesome
3	3	3	3	5	4	NULL	Perfect
4	4	4	4	5	4	NULL	Thanks
5	5	5	5	5	4	NULL	Excellent
6	6	6	6	4	5	NULL	Amazing

Menu_items:

item_id	restaurant_id	item_name	item_description	item_quantity
1	1	Pizza	Italian	1
2	2	Dosa	Indian	1
3	3	Burger	American	1
4	4	Noodles	Chinese	1
5	5	Fish	Fish	1
6	6	Chicken	Chicken	1