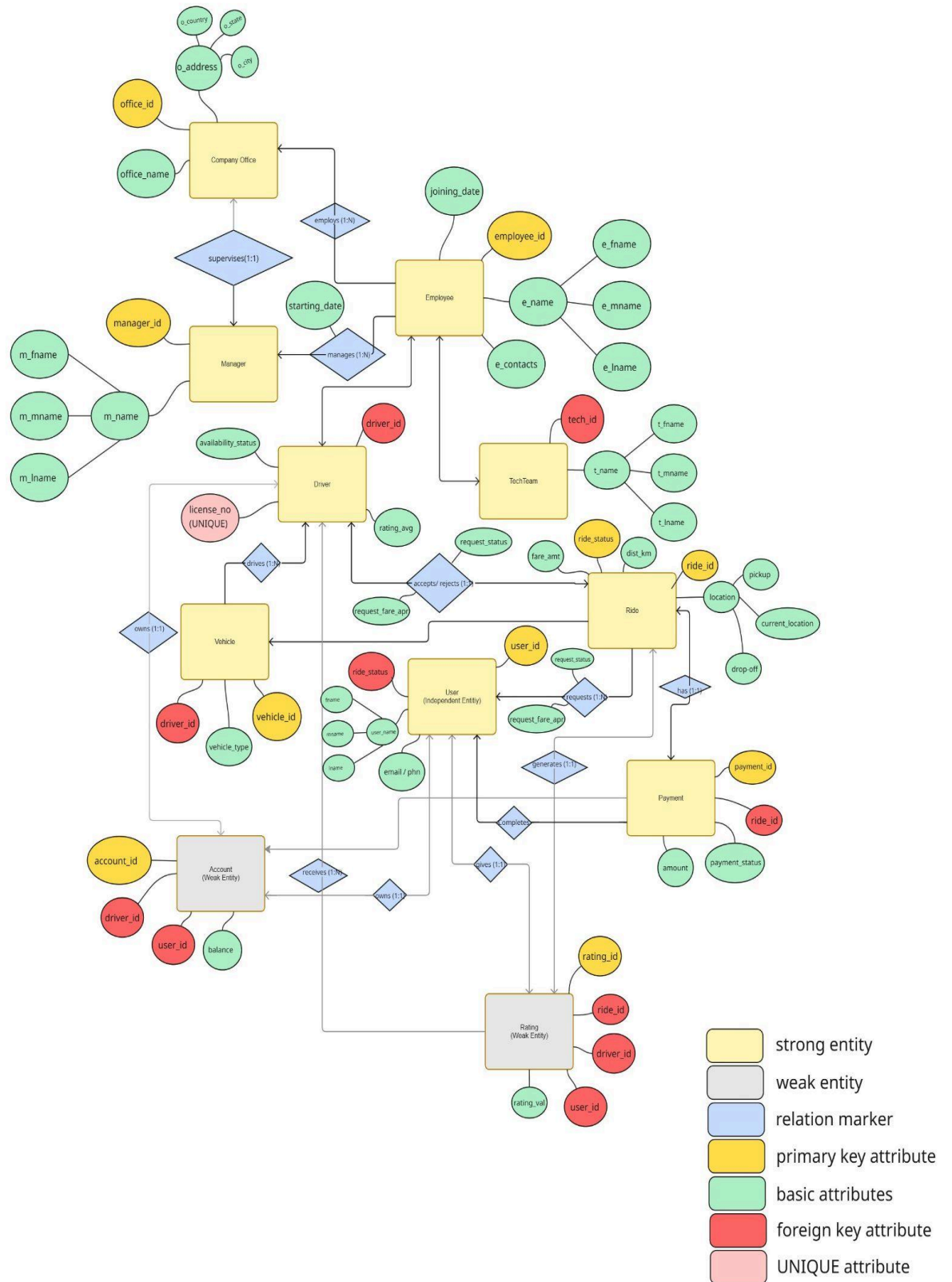# DBMS : Project Task 2

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Project Group : 46 , Tutorial Group : 4

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Ride Management System

ER DIAGRAM :

Entity-Relationship Diagram

Entities and Attributes:

- **Company Office**: office_id (PK), office_name, o_address, o_country, o_state, o_city
- **Employee**: employee_id (PK), joining_date, e_name (e_fname, e_mname, e_lname), e_contacts
- **Manager**: manager_id (PK), m_name (m_fname, m_mname, m_lname), starting_date
- **Driver**: driver_id (PK), availability_status, license_no (UNIQUE), rating_avg
- **TechTeam**: tech_id (PK), t_name (t_fname, t_mname, t_lname)
- **Vehicle**: vehicle_id (PK), driver_id (FK), vehicle_type
- **Ride**: ride_id (PK), ride_status, fare_amt, dist_km, pickup, location, current_location, drop-off, request_status, request_fare_apr
- **User (Independent Entity)**: user_id (PK), ride_status, user_name (fname, mname, lname), email / phn, request_status, request_fare_apr
- **Payment**: payment_id (PK), ride_id (FK), amount, payment_status
- **Account (Weak Entity)**: account_id (PK), driver_id (FK), user_id (FK), balance
- **Rating (Weak Entity)**: rating_id (PK), ride_id (FK), driver_id (FK), rating_val, user_id (FK)

Relationships:
- supervises (1:1)
- employs (1:N)
- manages (1:N)
- drives (1:N)
- owns (1:1)
- accepts/ rejects (1:1)
- requests (1:N)
- has (1:1)
- generates (1:1)
- receives (1:N)
- owns (1:1)
- completes
- gives (1:1)

Legend:
- strong entity
- weak entity
- relation marker
- primary key attribute
- basic attributes
- foreign key attribute
- UNIQUE attribute

RELATIONAL SCHEMAS:

COMPANY_OFFICE

office_id	office_name	o_state	o_state	o_city

EMPLOYEE

New grid

employee_id	joining_date	e_fname	e_mname	e_lname	e_contacts	office_id

MANAGER

manager_id	m_fname	m_mname	m_lname

DRIVER

driver_id	license_no	availability_status	rating_avg

TECHTEAM

tech_id	t_fname	t_mname	t_lname

VEHICLE

vehicle_id	driver_id	vehicle_type

USER

New grid

user_id	ride_status	fname	mname	lname	email / phn

RIDE

New grid

ride_id	ride_status	pickup	current_location	drop_off	dist_km	fare_amt

PAYMENT

New grid

payment_id	ride_id	amount	payment_status

ACCOUNT

New grid

account_id	user_id	driver_id	balance

RATING

New grid

rating_id	ride_id	driver_id	user_id	rating_val