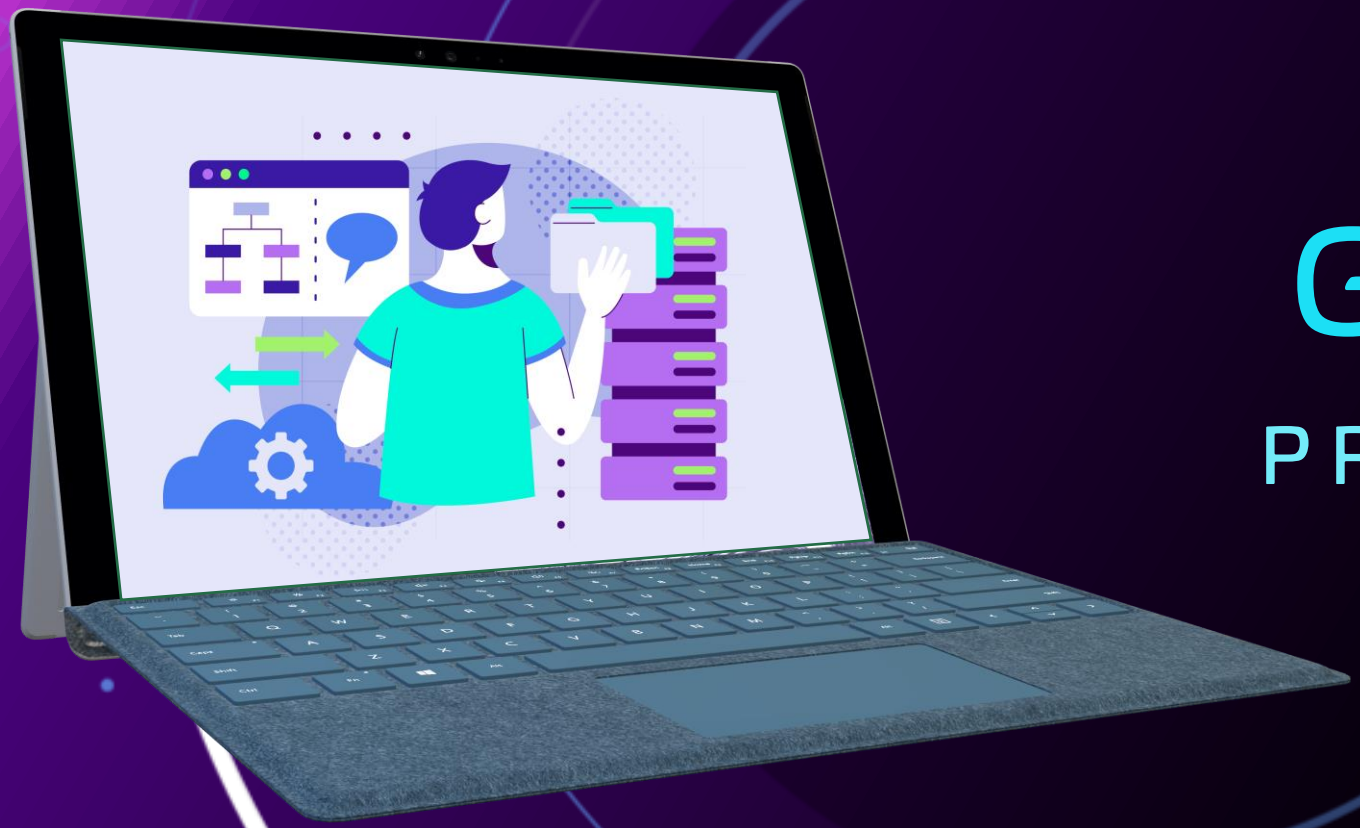


GROUP F

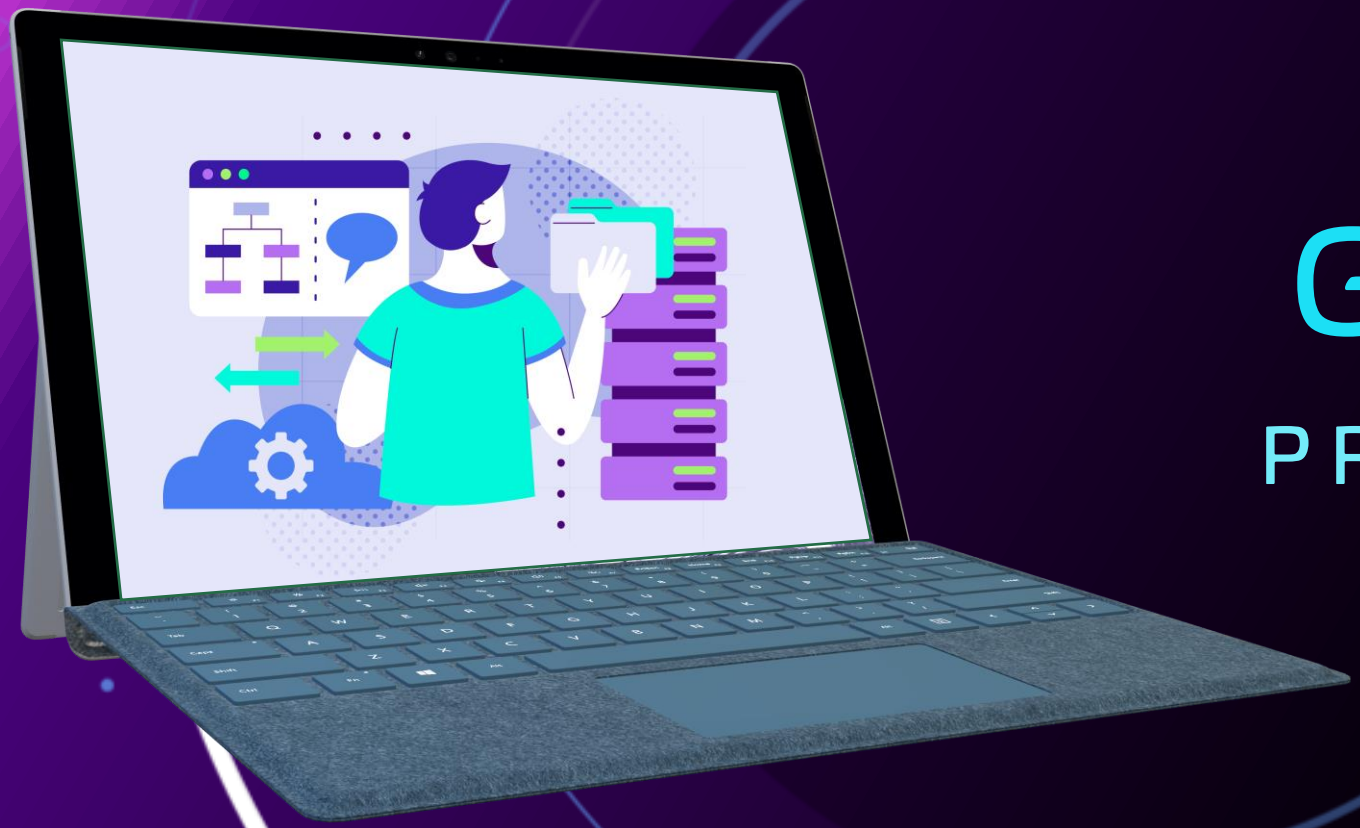
PRESENTATION

INTRODUCTION

TOPIC:
TRANSLATING EER DIAGRAM TO RELATIONAL SCHEMAS

YOU ALREADY KNOW WE HAVE LEARNED ABOUT 4 OPTIONS TO TRANSLATING EER DIAGRAM TO RELATIONAL SCHEMAS

IN THIS PRESENTATION WE ARE GOING TO DISCUSS 5 QUESTION RELATED ABOUT THIS TOPIC



GROUP F

PRESENTATION

GROUP MEMBERS

PCM Dharmasiri– 2021/ASP/24

H.P.N.Isuranga Herath– 2021/ASP/15

V.Banuyah – 2021/ASP/43

K.Sukikaran – 2021/ASP/46

J.H.A.P.Perera – 2021/ASP/60

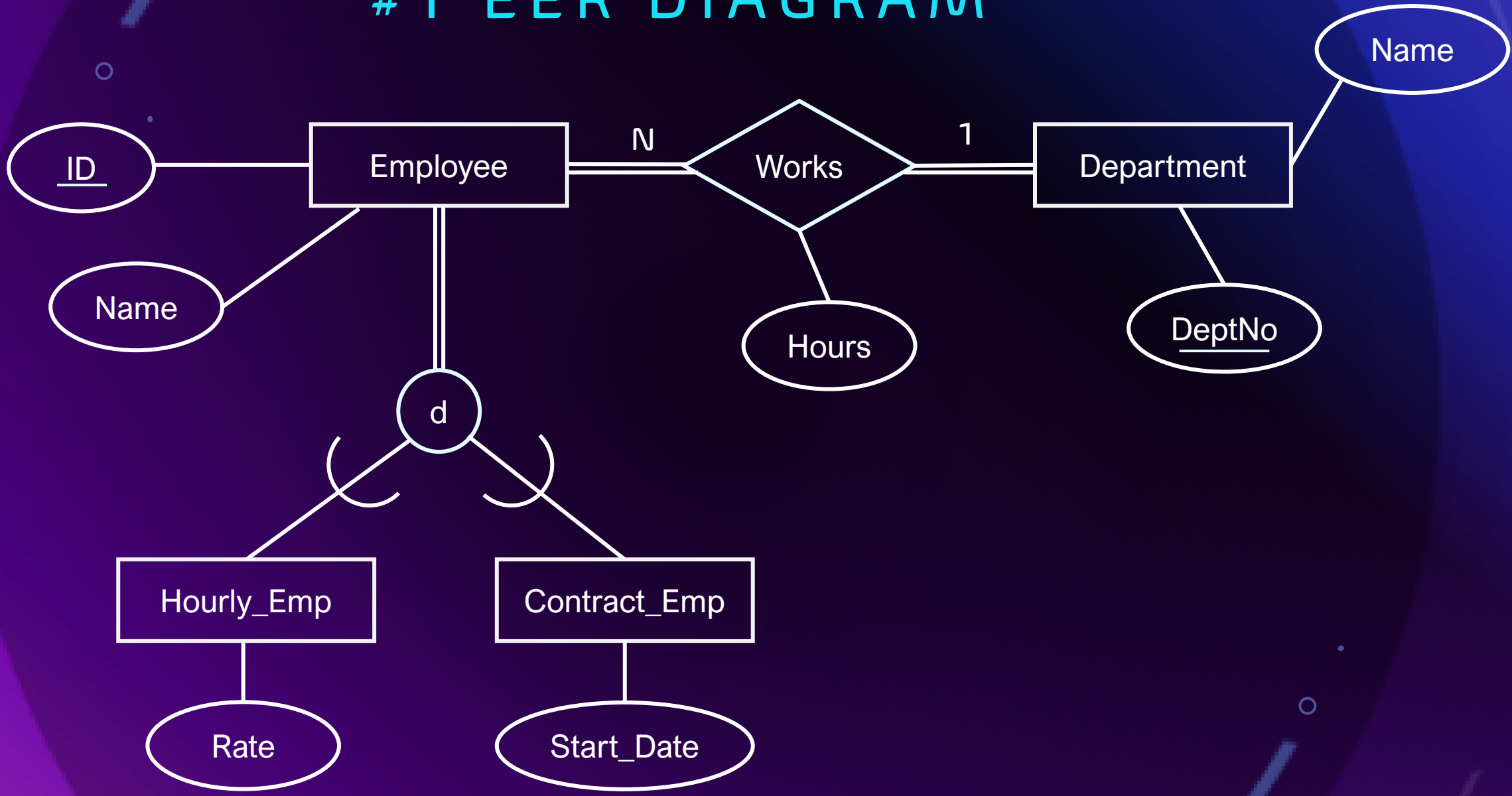
U.W.A. Samadhi Keshala - 2021/ASP/63

S.Thushjanthan - 2020/ASP/78

V.BANUYAH

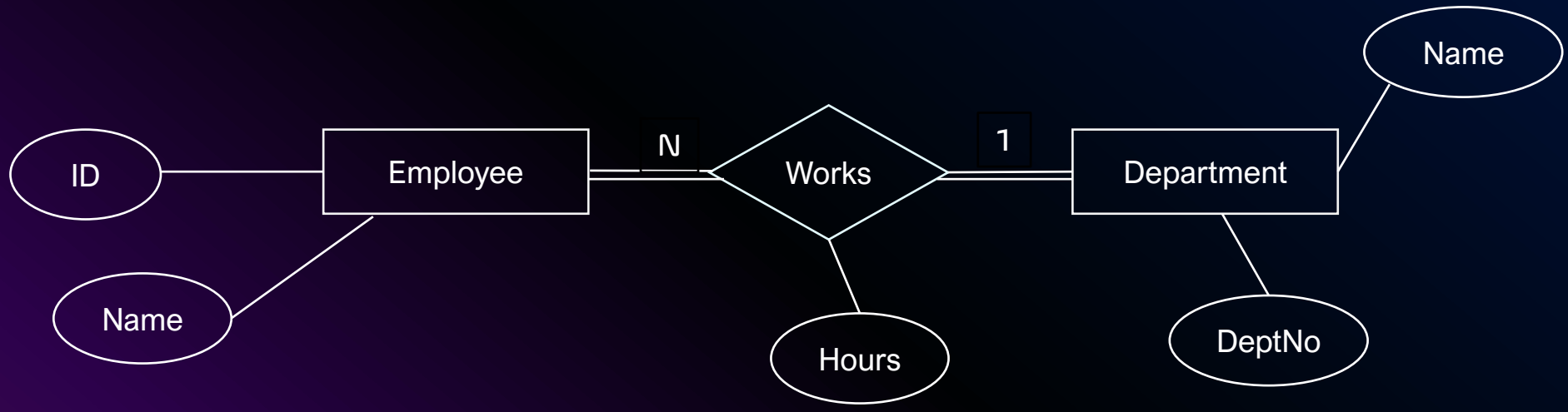
2021/ASP/43

#1 EER DIAGRAM



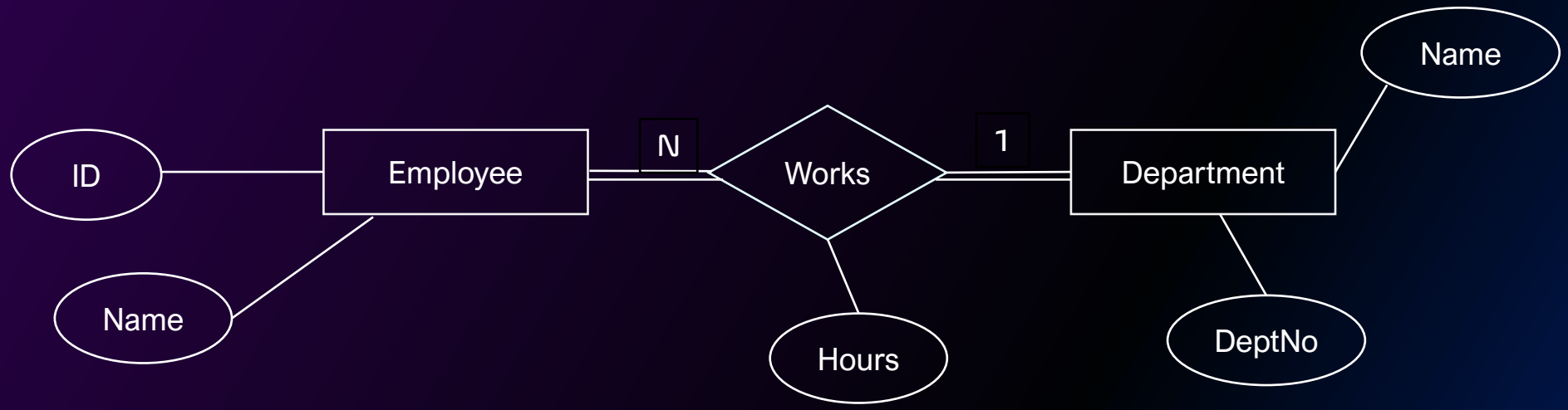
Q1
STEP 1 : MAPPING REGULAR ENTITIES

- Employee(<u>ID</u>, Name)
- Department(<u>DeptNo</u>, Name)



Q1
STEP 4 : 1:N BINARY RELATIONSHIPS

Employee(<u>ID</u>, Name, Hours, DeptNo)

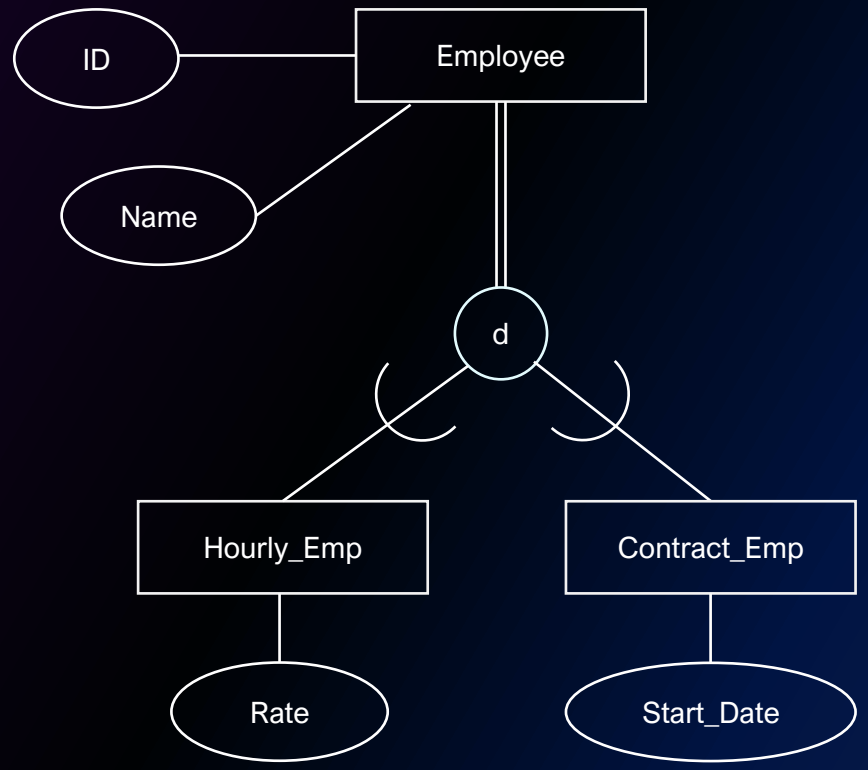


Q1
STEP 8 : MAPPING EER MODEL TO RELATIONS

8A

Hourly_Emp(ID, rate)

Contract_Emp(ID, Start_Date)



#1 FINAL RELATIONAL SCHEMA

1 Employee(<u>ID</u>, Name, DeptNo, Hours)

3 Department(<u>DeptNo</u>, Name)

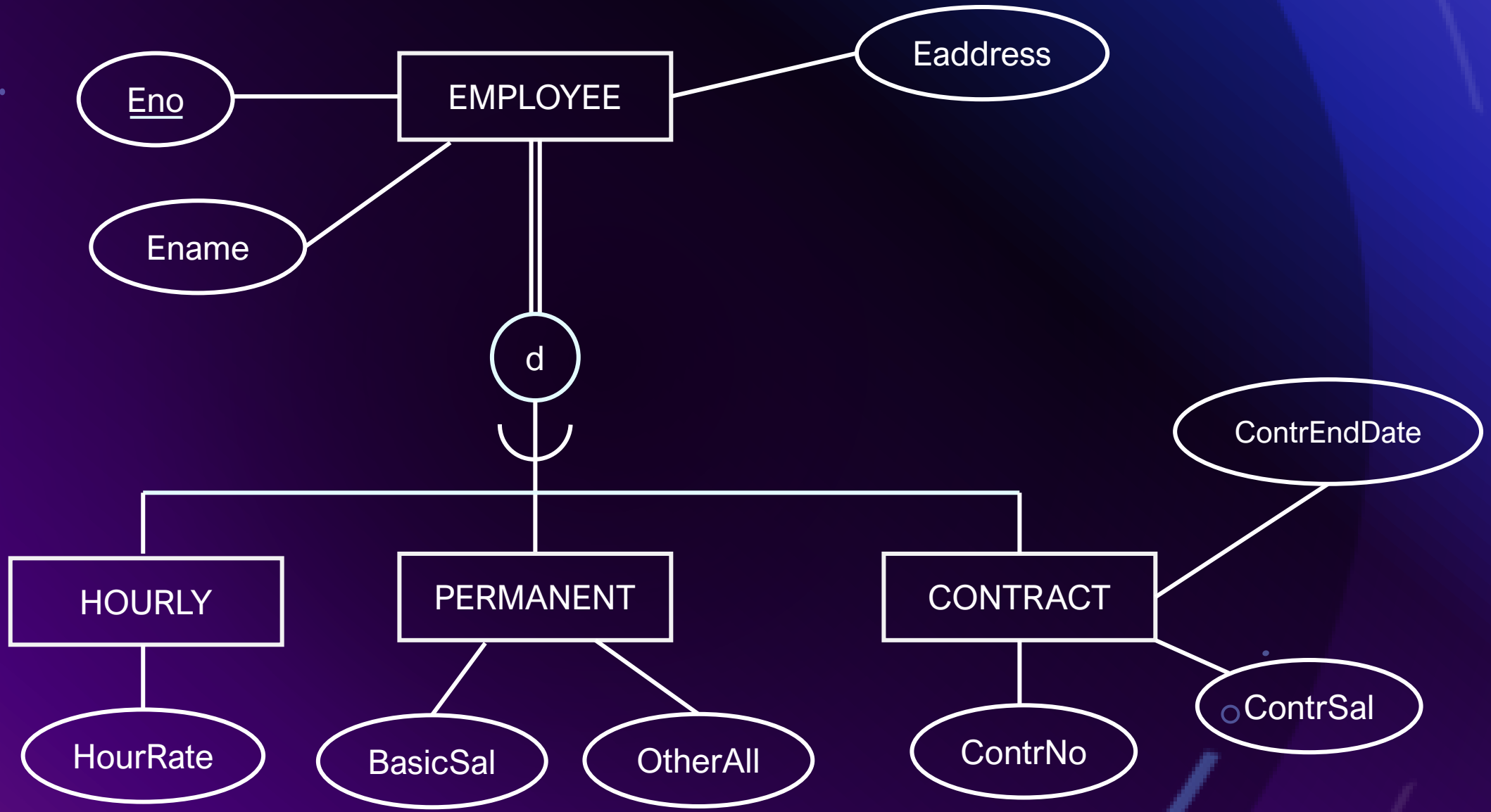
4 Hourly_Emp(<u>ID</u>, Rate)

5 Contract_Emp(<u>ID</u>, Start_Date)

SAMADHI KESHALA

2021/ASP/63

#2 EER DIAGRAM



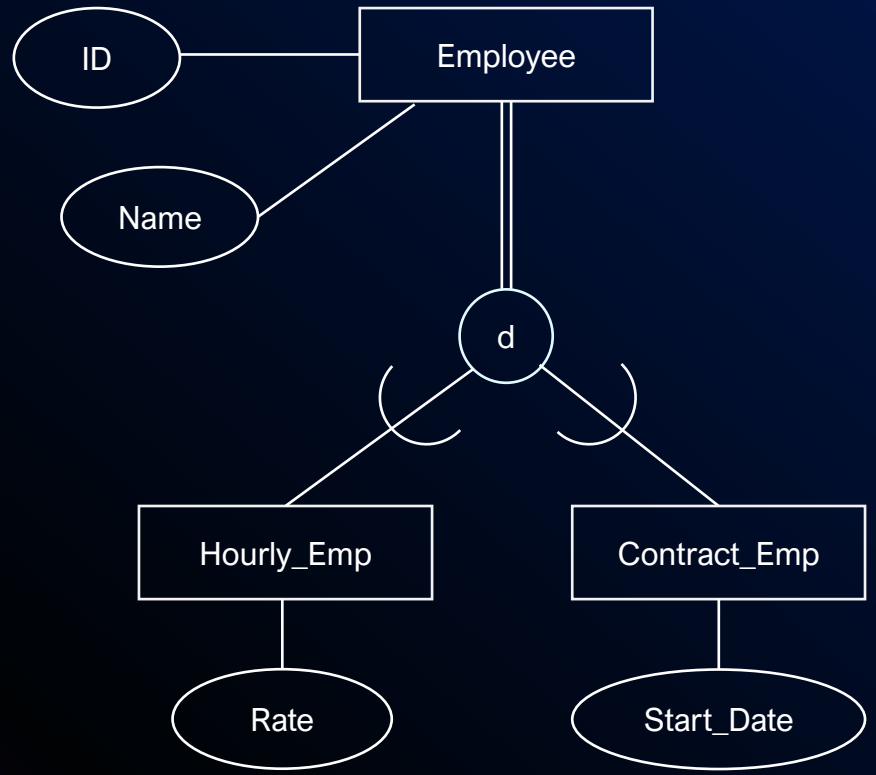
Q2
STEP 1 : MAPPING REGULAR ENTITIES

- Employee(Eno, Ename, Eaddress)

Q2
STEP 8 : MAPPING EER MODEL TO RELATIONS

8 A

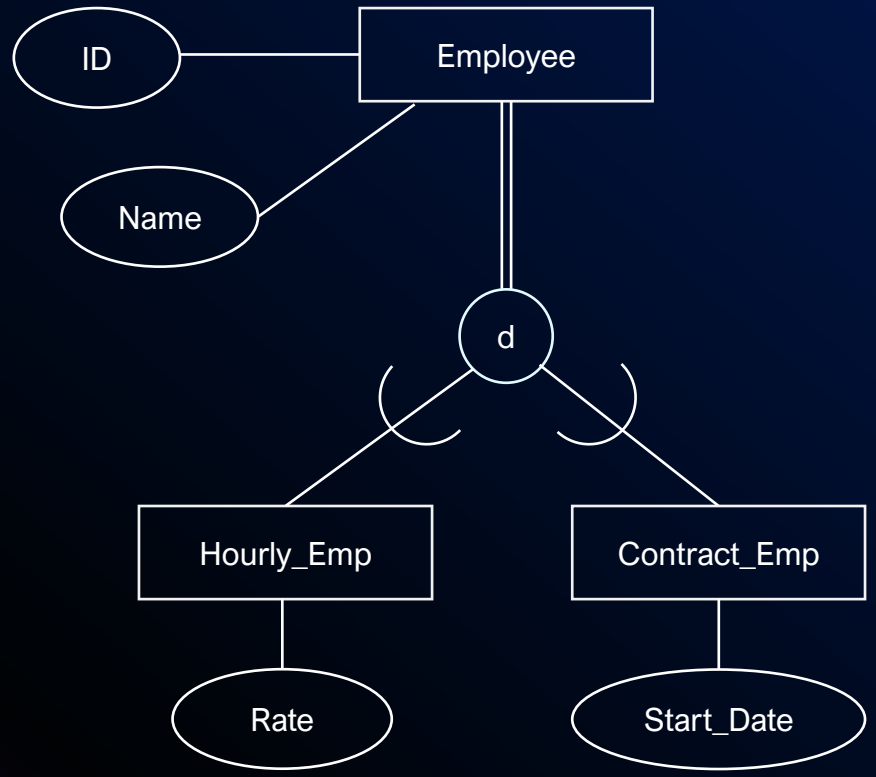
- EMPLOYEE(Eno, Ename, Eaddress
- HOURLY(Eno, HourRate)
- PERMANENT(Eno, BasicSal, OtherAll)
- CONTRACT(Eno, ContrNo, ContrSal, ContrEndDate)



Q2
STEP 8 : MAPPING EER MODEL TO RELATIONS

8 B

- Hourly(Eno, Ename, Eaddress, HourRate)
- Permanent(Eno, Ename, Eaddress, BasicSal, OtherAll)
- Contract(Eno, Ename, Eaddress, ContrNo, ContrSal, ContrEndDate)



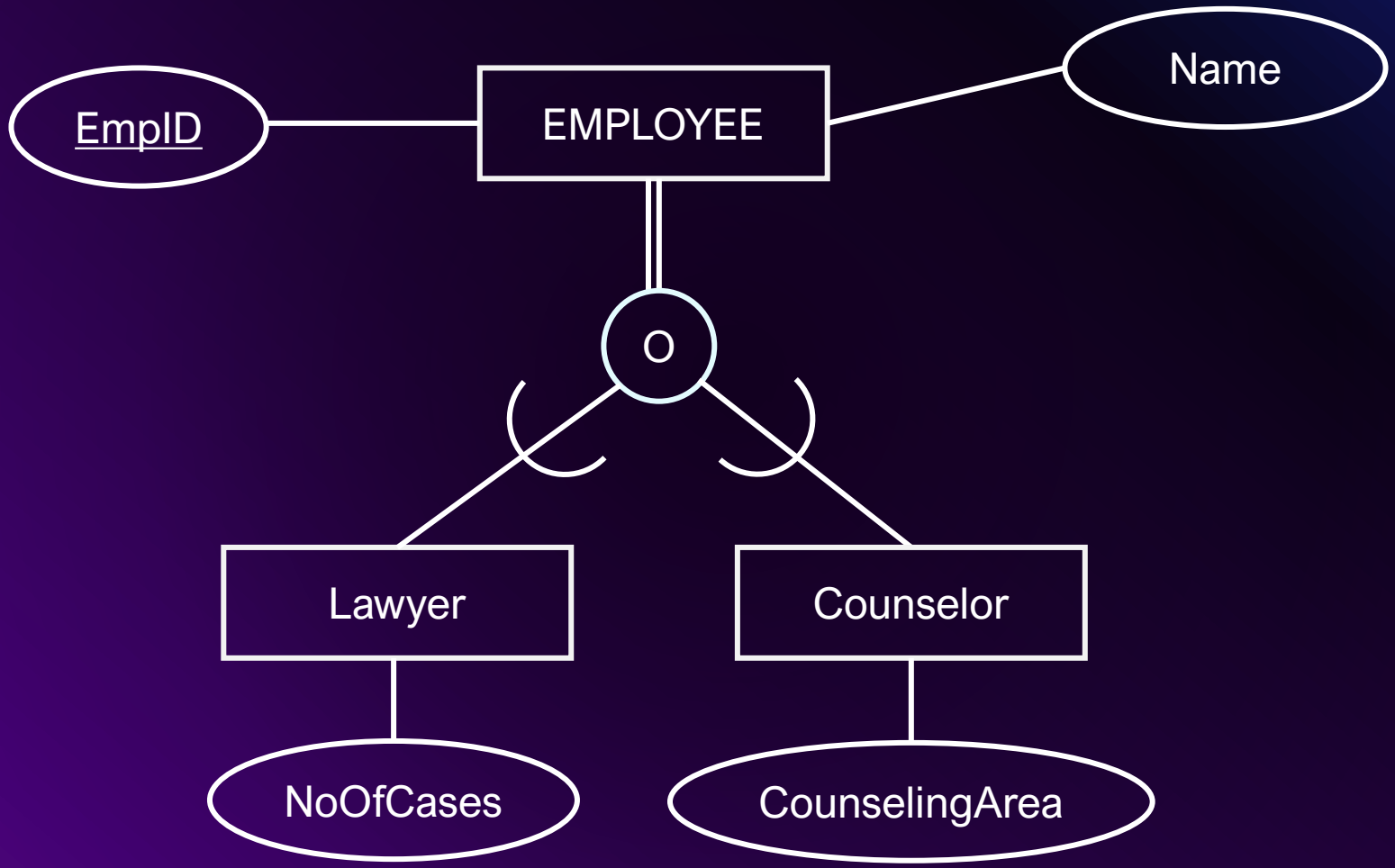
#2 FINAL RELATIONAL SCHEMA

- Hourly(Eno, Ename, Eaddress, HourRate)
- Permanent(Eno, Ename, Eaddress, BasicSal, OtherAll)
- Contract(Eno, Ename, Eaddress, ContrNo, ContrSal, ContrEndDate)

AMAYA PERERA

2021/ASP/60

#3 EER DIAGRAM



Q2
STEP 1 : MAPPING REGULAR ENTITIES

- Employee(EmpID, Name)

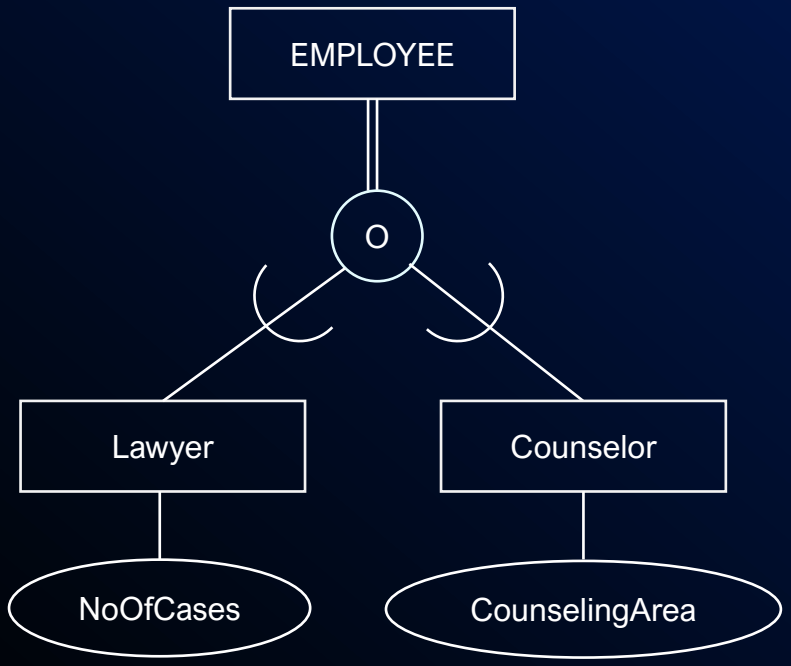
Q3
STEP 8 : MAPPING EER MODEL TO RELATIONS

8A

- Employee (EmpID, Name)
- Lawyer(EmpID, NoOfCases)
- Counselor(EmpID, CounselingArea)

8D

- Employee(EmpID, Name, Lflag , NoOfCases, Cflag, CounselingArea)



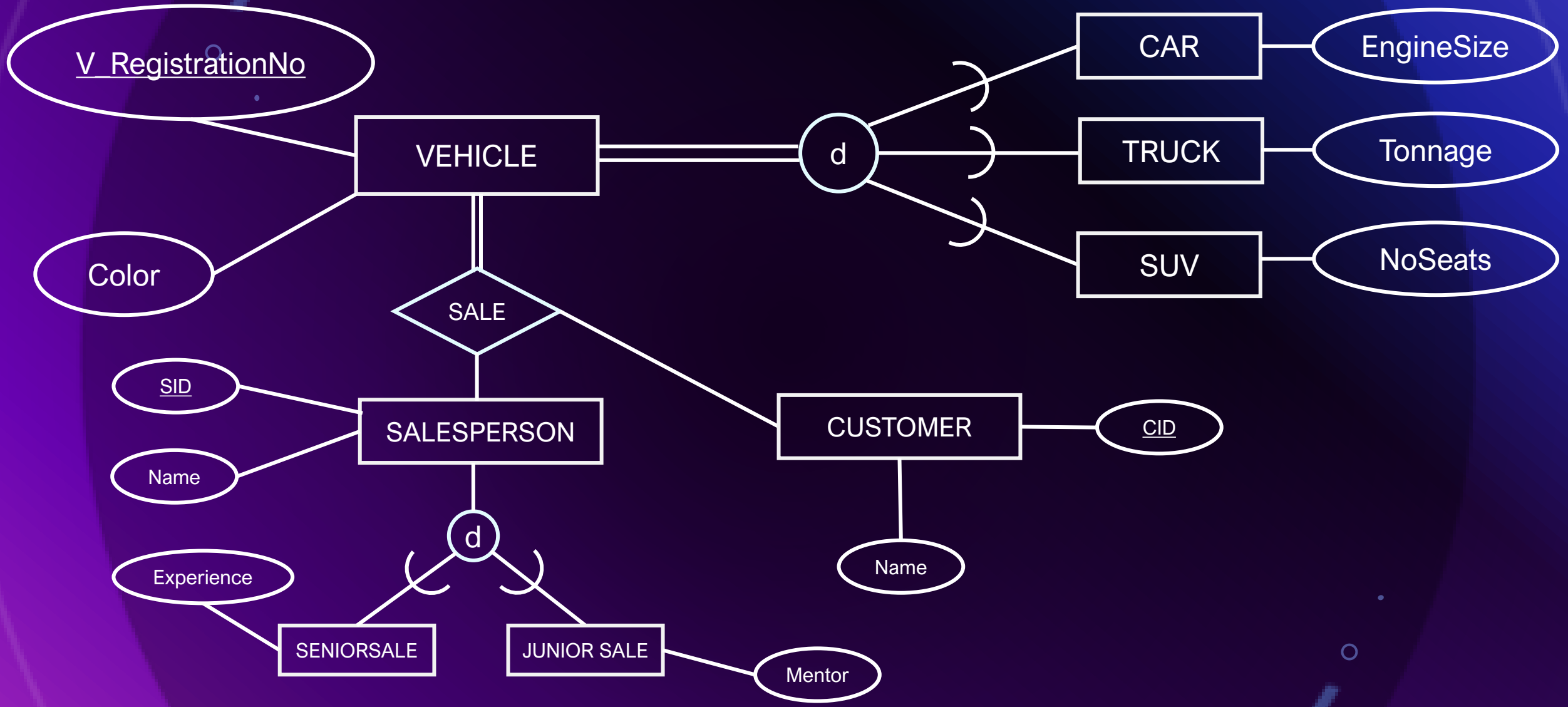
#3 FINAL RELATIONAL SCHEMA

- Employee (EmpID, Name)
- Lawyer(EmpID, NoOfCases)
- Counselor(EmpID, CounselingArea)

K.SUKIKARAN & THUSHJANTHAN

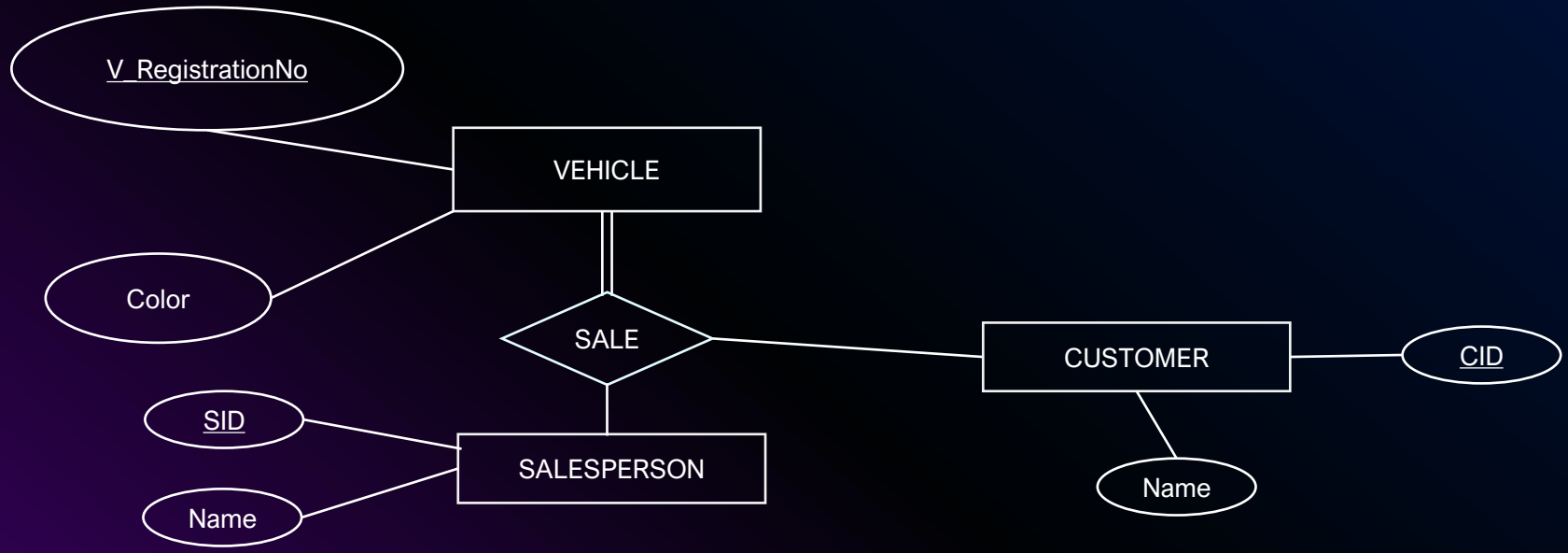
2021/ASP/46 2020/ASP/78

#4 EER DIAGRAM



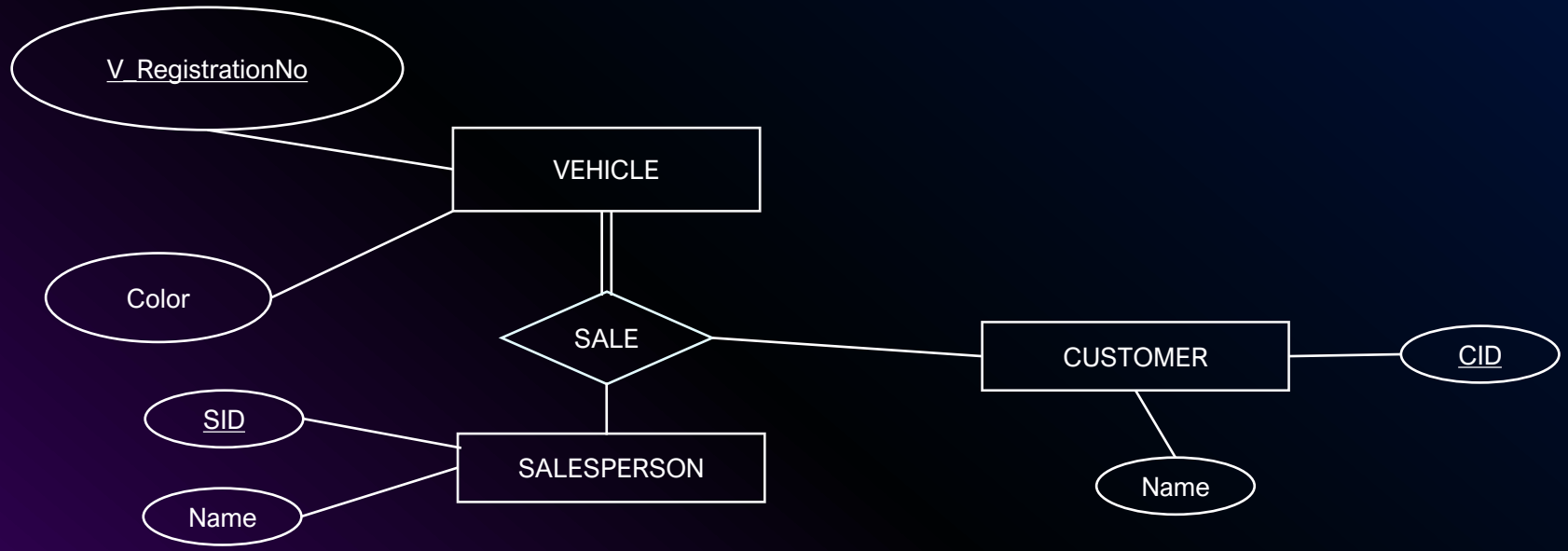
Q4
STEP 1 : MAPPING REGULAR ENTITIES

- VEHICLE(V_RegistrationNo,Color)
- SALESPERSON(SID,Name)
- CUSTOMER(CID,Name)



Q4
STEP 7 : MAPPING N-ARY RELATIONSHIP TYPES

- SALE(V_RegistrationNo ,SID,CID)



Q4
STEP 8 : MAPPING EER MODEL TO RELATIONS

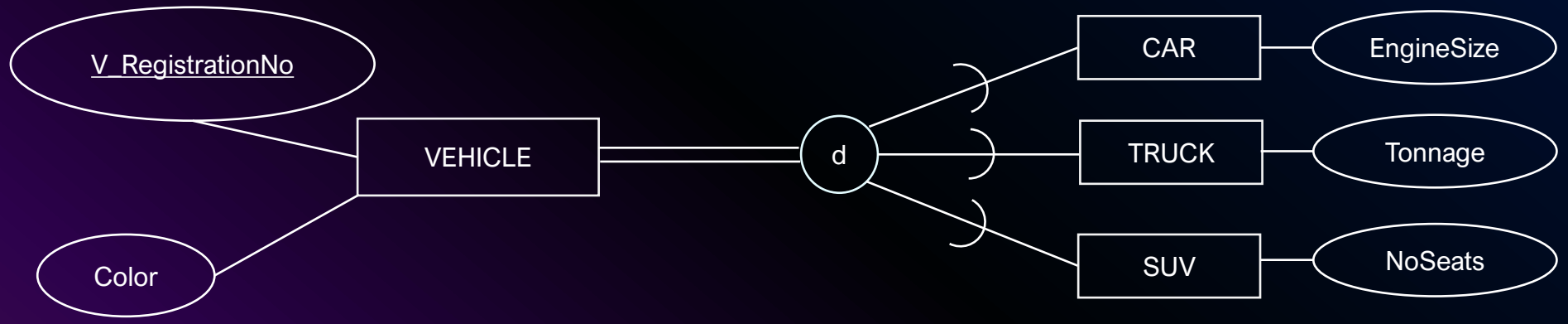
8B

- CAR(V_RegistrationNO, Colour,EngineSize)
- TRUCK(V_RegistrationNO, Colour,Tonnage)
- SUV(V_RegistrationNO, Colour,NoSeats)

OR

8C

- VEHICLE(V_RegistrationNO, Color, Vtype, EngineSize, Tonnage, NoSeats)



Q4
STEP 8 : MAPPING EER MODEL TO RELATIONS

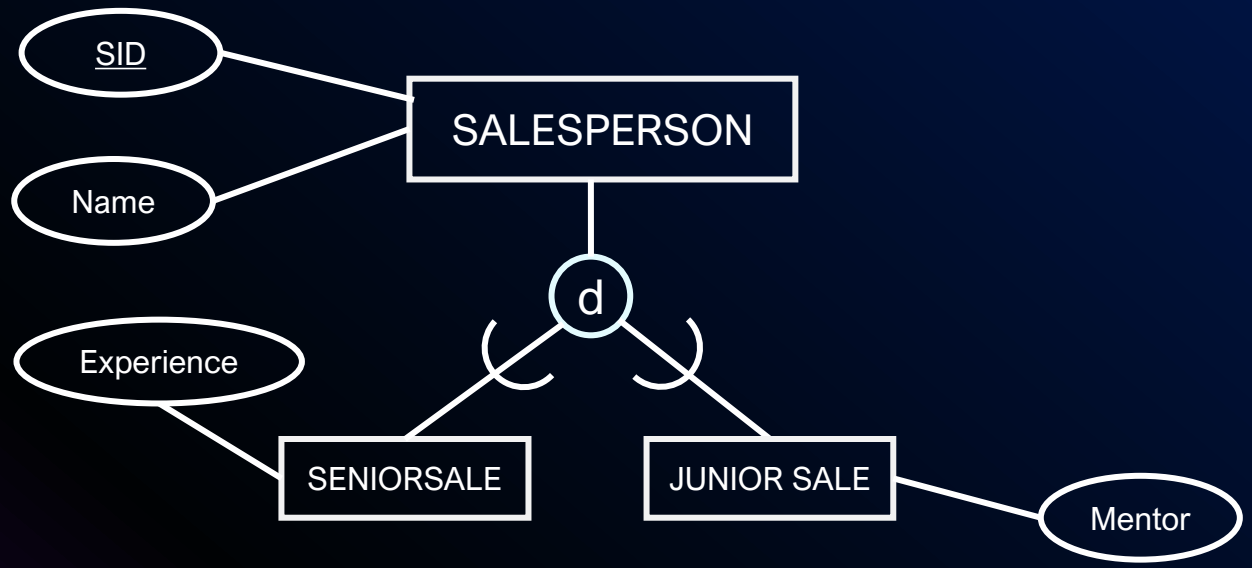
8A

- SALE SPERSON(SID, Name)
- SENIORSALE(SID, Experience)
- JUNIORSALE(SID, Mentor)

OR

8C

- Sale Person(SID, Name, Type, Experience, Mentor)



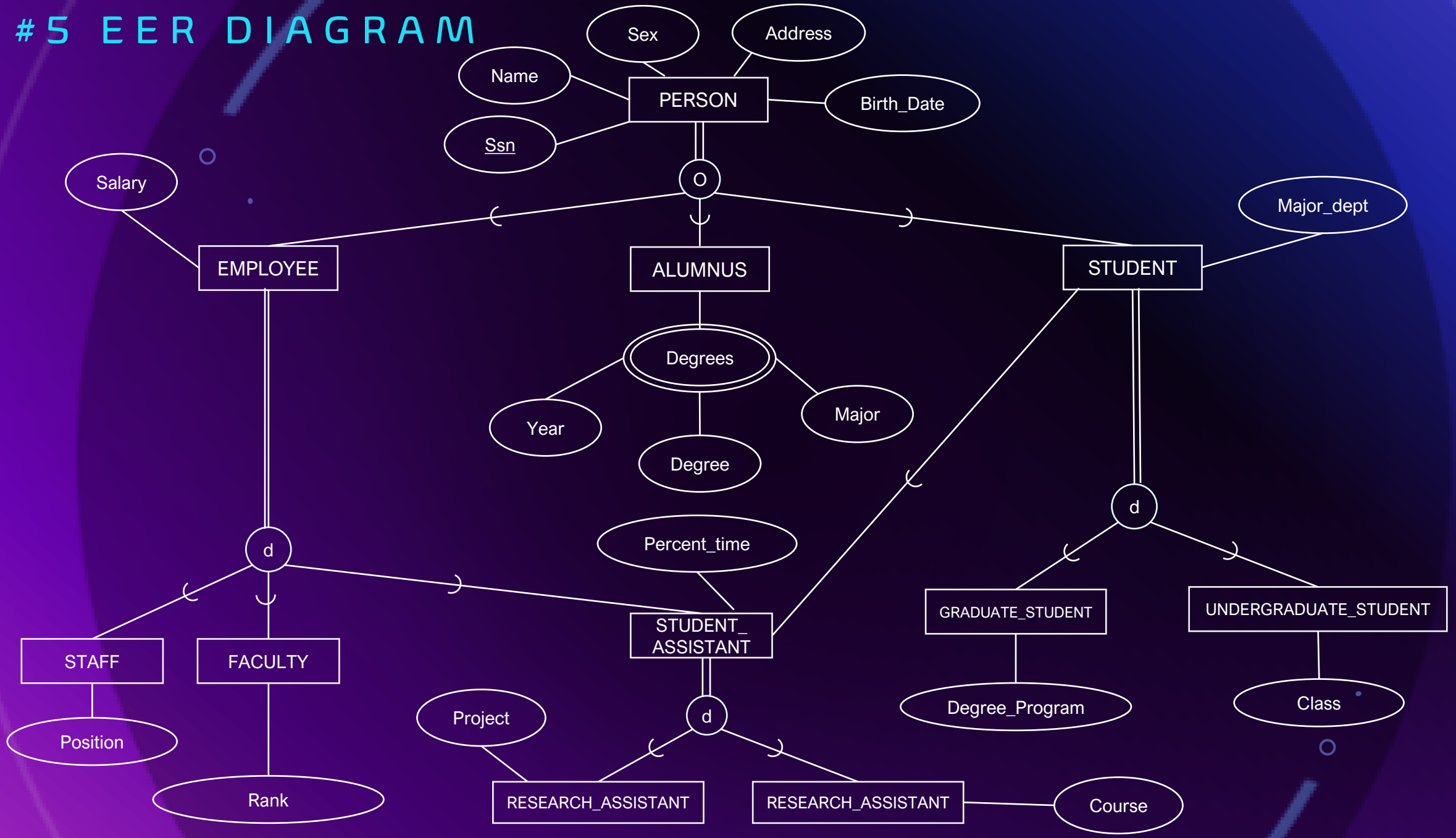
FINAL SCHEMA

- CUSTOMER(CID, Name)
- SALE(V_RegistrationNo , SID, CID)
- CAR(V_RegistrationNO, Color, EngineSize)
- TRUCK(V_RegistrationNO, Color, Tonnage)
- SUV(V_RegistrationNO, Color, NoSeats)
- Sale Person(SID, Name, Type, Experience, Mentor)

ISURANGA HERATH & CHATHURA MAHESH

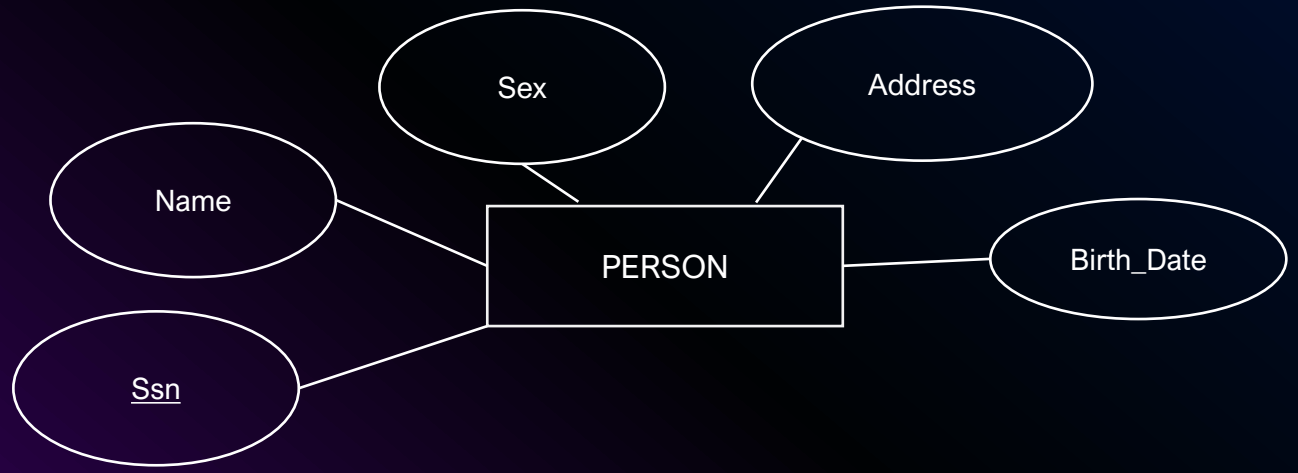
2021/ASP/15 2021/ASP/24

#5 EER DIAGRAM



Q5
STEP 1 : MAPPING REGULAR ENTITIES

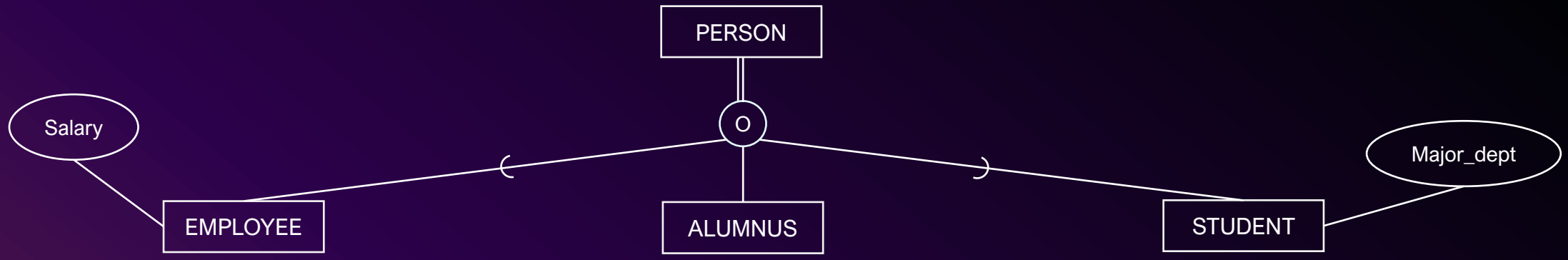
- PERSON(Ssn, Name, Sex, Address, Birth_date



Q4
STEP 8 : MAPPING EER MODEL TO RELATIONS

8A

- PERSON(Ssn, Name, Sex, Address, Birth_date)
- EMPLOYEE(Ssn, Salary)
- Student(Ssn, Major_dept)
- Alumnus(Ssn)
- AlumnusDegree(Ssn, Year, Degree, Major)



Q4
STEP 8 : MAPPING EER MODEL TO RELATIONS

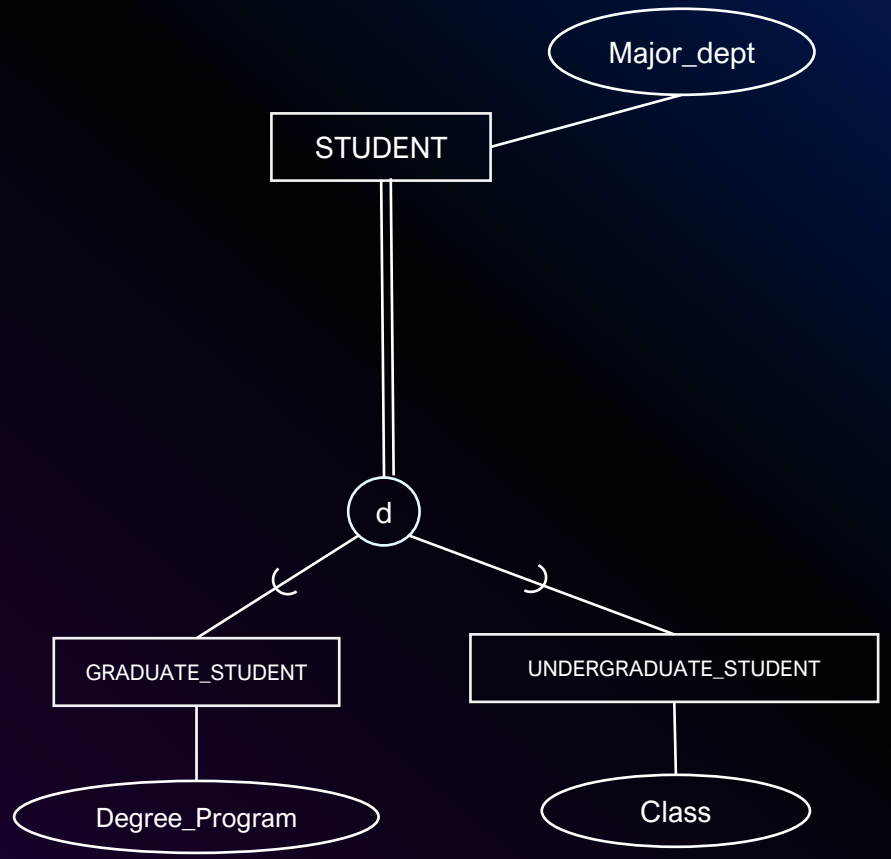
8A

- STUDENT(Ssn, Major_dept)
- GRADUATE_STUDENT(Ssn, Degree_program)
- UNDERGRADUATE_STUDENT(Ssn, Class)

OR

8C

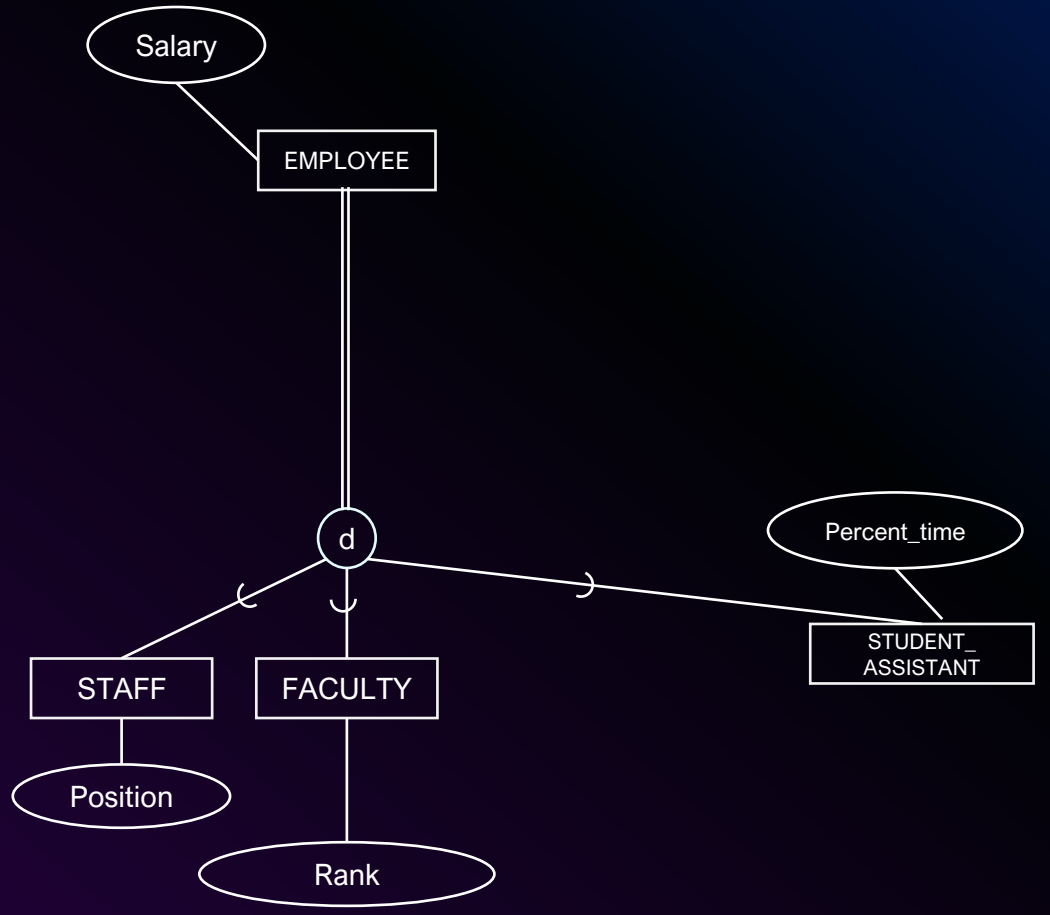
- STUDENT(Ssn, Major_dept, Type, Degree_program, Class)



Q4
STEP 8 : MAPPING EER MODEL TO RELATIONS

8A

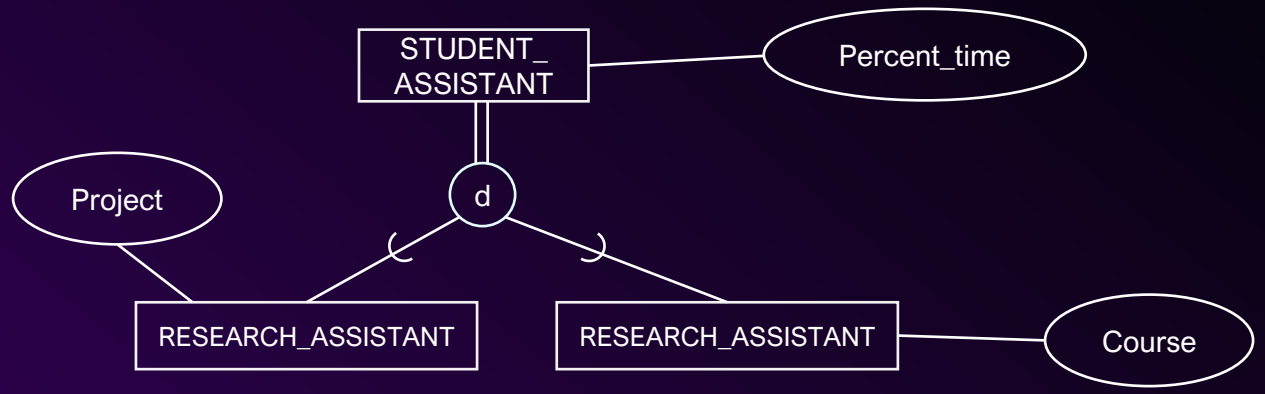
- EMPLOYEE(Ssn, Salary)
- STAFF(Ssn, Position)
- FACULTY(Ssn, Rank)
- STUDENT_ASSISTANT(Ssn, Precent_time)



Q4
STEP 8 : MAPPING EER MODEL TO RELATIONS

8C

- STUDENT_ASSISTANT(Ssn, Salary, Major_dept, Type, Project, Course, Percent_time)



FINAL SCHEMA

- PERSON(Ssn, Name, Sex, Address, Birth_date)
- EMPLOYEE(Ssn, Salary)
- Alumnus(Ssn)
- AlumnusDegree(Ssn, Year, Degree, Major)
- STUDENT(Ssn, Major_dept, Type, Degree_program, Class)
- STAFF(Ssn, Position)
- FACULTY(Ssn, Rank)
- STUDENT_ASSISTANT(Ssn, Percent_time , Type, Project, Course)

ANY QUESTION?

THANK YOU!

SQL quries

Via GitHub

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