

SQL AND BUSINESS LOGIC PROGRAMMING USING MS-  
SQL PROJECT: PART1

**project name:** Car's rental System

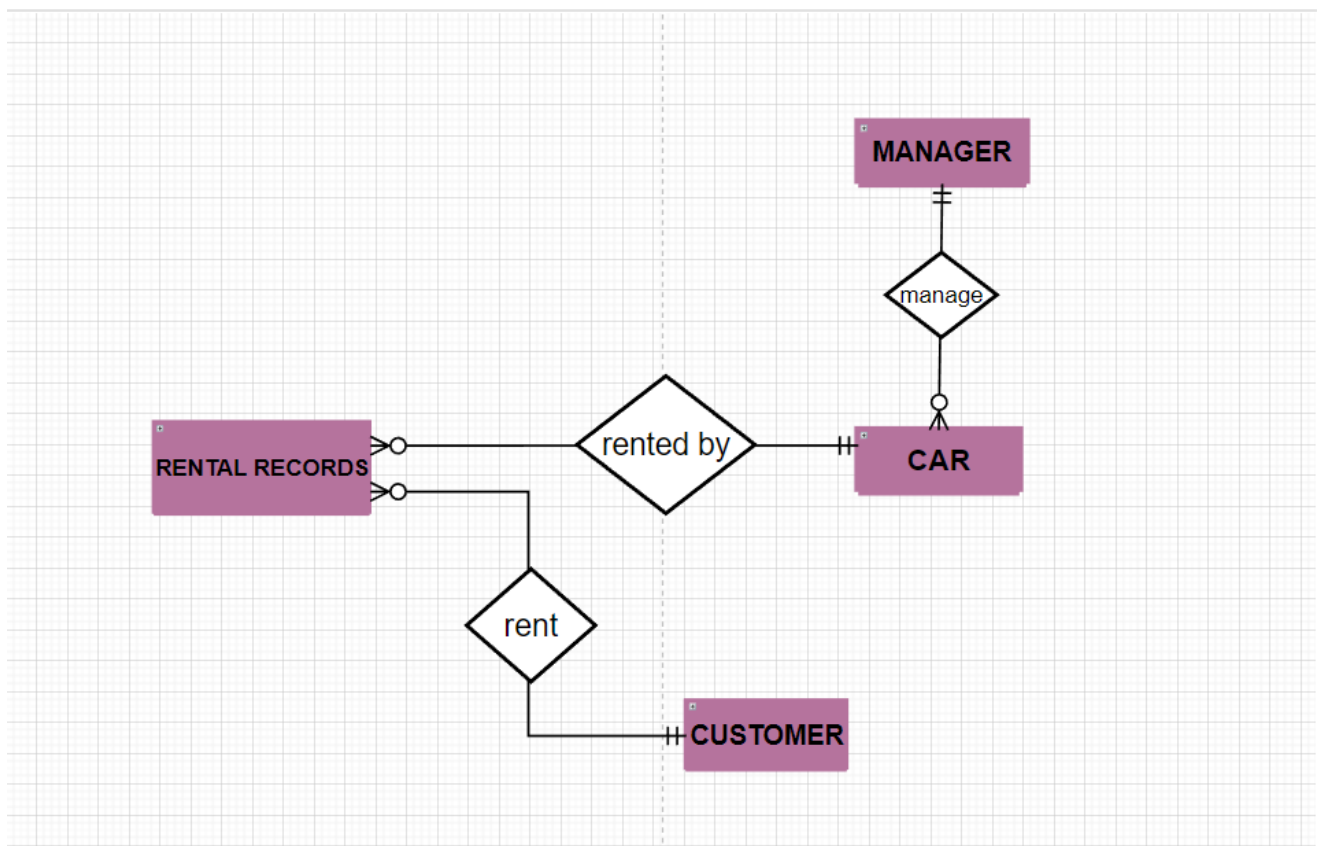
**Student's names:** Bushra Al-Musallami

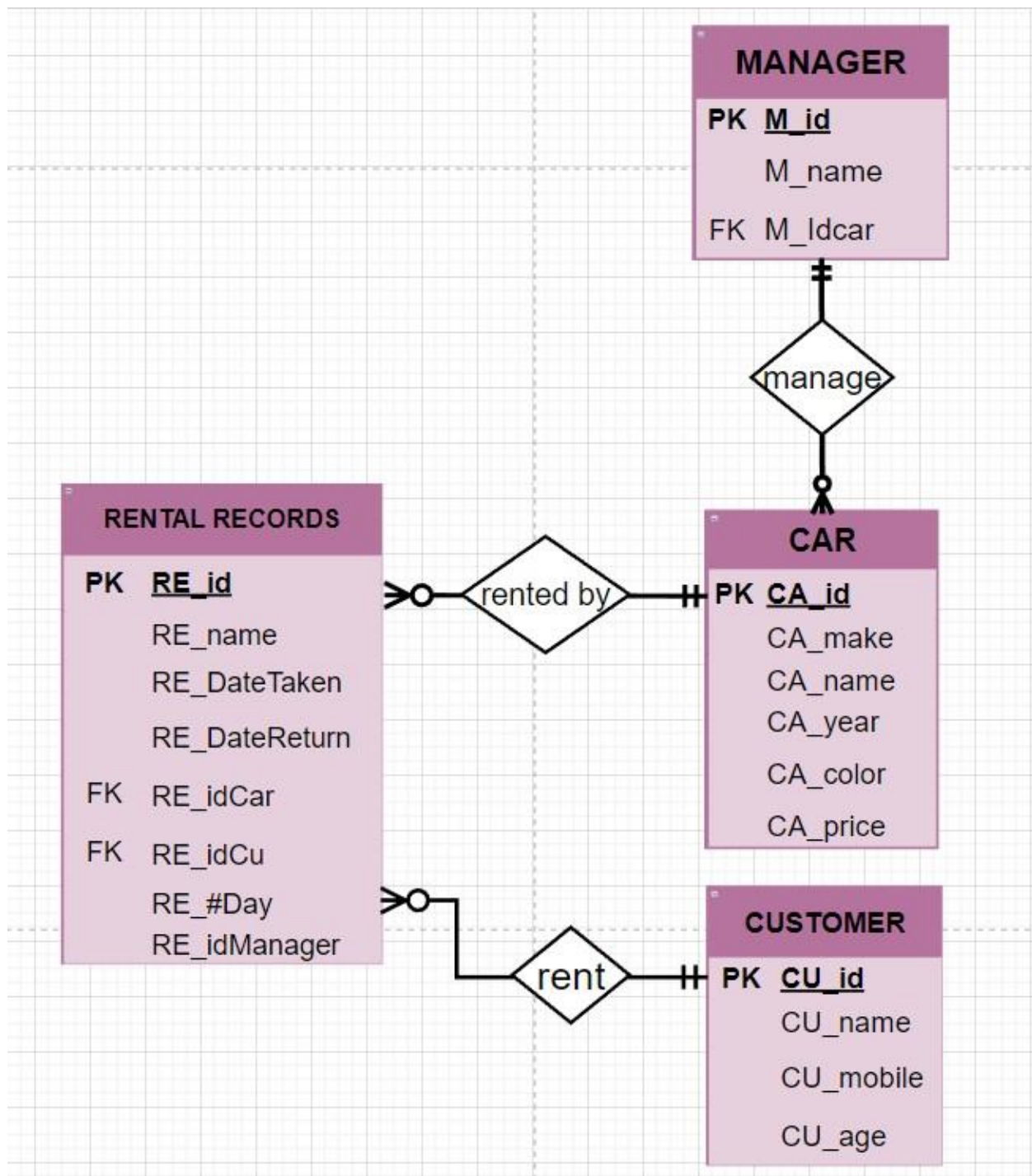
Saba Al-Thahli

Bushra Al-Alawi

**SECTION A. PROJECT DESIGN:**

-Car's rental System includes a wide range of cars to meet your rental needs. The system includes seamless customer experience, effective vehicle management, and effective supervision by managers. Customers can have multiple rental records. Each rental record belongs to a specific customer. Each car can have multiple rental records. Each rental record is associated with a specific car. Each manager can be responsible for managing one or many cars.





\* CUSTOMER:

Customer id

Customer Name

Customer mobile phone

Customer age

\*CAR

Id Car

Car makes.

Car name

Car year

car color

car price

\* RENT

Rent id

Rent name

Rent Date Taken

Rent Date Return

Rent id Car

Rent id Customer.

Rent #Day

Rent id Manager

\* MANAGER

Manager id

Manager name

Manager idCar

## CUSTOMER

Field	Data Type	Constraints
CU_id	N (6)	PK
CU_name	C (20)	Not Null
CU_Mobile	C (8)	>=900000000 or >=700000000
CU_age	N (2)	>18

## CAR

Field	Data Type	Constraints
CA_id	N (6)	PK
CA_make	C (20)	Not NULL
CA_name	C (8)	
CA_year	N (4)	
CA_color	C (10)	
CA_Price	N (200)	

## RENT

Field	Data Type	Constraints
RE_id	N (6)	PK
RE_name	C (20)	Not NULL
RE-DateTaken	Date	Not Null
RE_DateReturn	Date	> DataTaken
RE_idCar	N (6)	FK (link to CAR)
RE_idCu	N (6)	FK (link to CUSTOMER)
RE_#Day	N (6)	Integer,>0
RE_idManager	VAR(10)	FK (link to Manager)

## MANAGER

Field	Data Type	Constraints
M_id	C (10)	PK
M_name	C(20)	Not NULL
M_Idcar	N (6)	FK (link to car)

### CUSTOMER (1)

CU_id	CU_name	CU_Mobile	CU_age
123456	Faisal	98765432	25
789012	Khalid	87654321	19
345678	Ali	76543210	30

### CAR (2)

CR_id	CA_make	CU_name	CU_year	CA_color	CA_Price
111	Toyota	Camry	2021	blue	14 OMR
212	Honda	Civic	2022	black	10 OMR
313	Ford	Mustang	2020	white	20 OMR
113	Toyota	Camry	2023	yellow	14 OMR

### RENT (3)

RE_id	RE_name	RE_DateTaken	RE_DateReturn	RE_idCar	RE_idCu	RE_NumDays	RE_idManager
1	Rent 1	2023-06-10	2023-06-15	111	123456	5	M001
2	Rent 2	2023-06-12	2023-06-18	212	789012	6	M002
3	Rent 3	2023-06-15	2023-06-20	313	345678	5	M003

### MANAGER (3)

M_id	M_name	M_Idcar
M001	Said	111
M002	Ahmed	212
M003	Sultan	313
M004	Said	113

