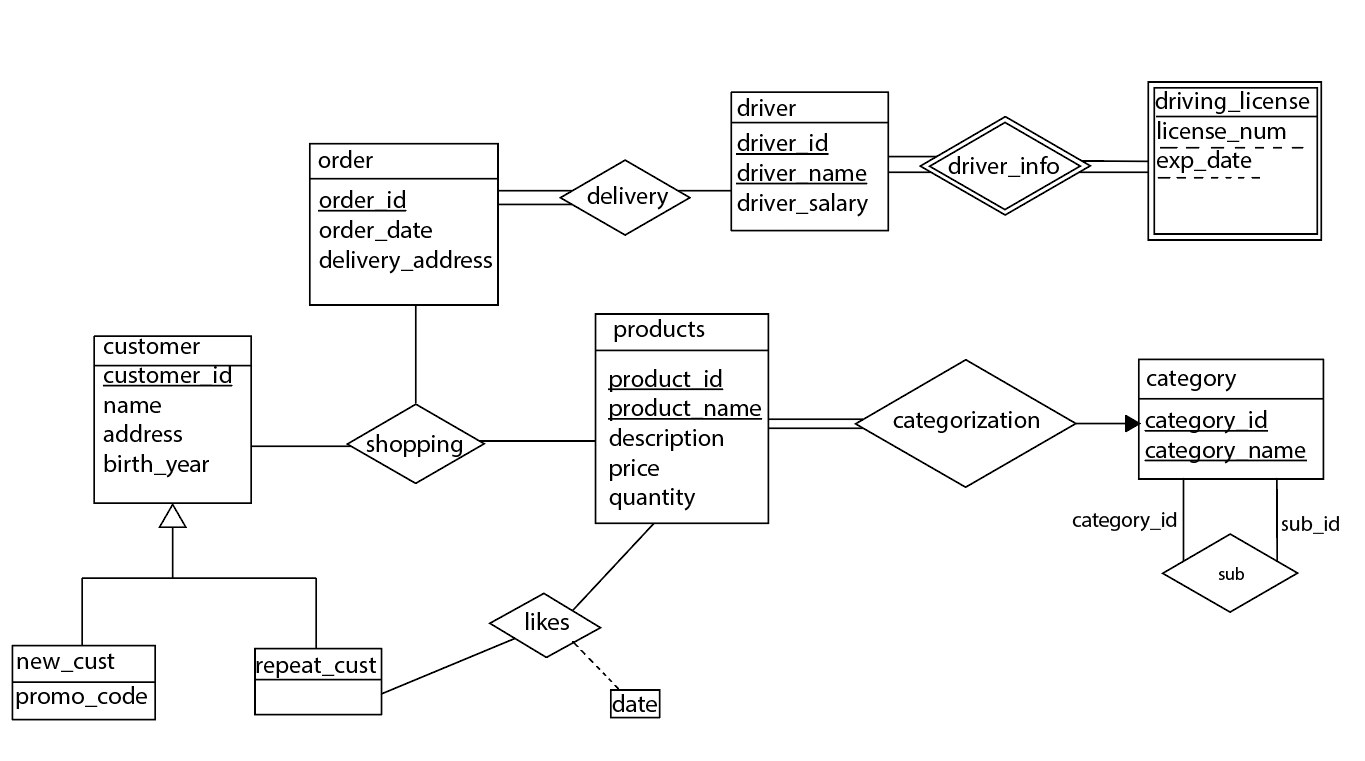
Bilkent University Ata Seren

CS353 Database Systems Section-2

Homework 2 Answers 21901575

Q1) ER Diagram of database system for an online pet shop:

Q2) Relational model of the ER diagram:

customer(customer\_id, name, address, birth\_year)

products(product\_id, product\_name, description, price, quantity)

order(order\_id, order\_date, delivery\_address)

shopping(customer\_id, product\_id, product\_name, order\_id)

FK: customer\_id references customer

FK: (product\_id, product\_name) references products

FK: order\_id references order

new\_cust(customer\_id, promo\_code)

FK: customer\_id references customer

repeat\_cust(customer\_id)

FK: customer\_id references customer

likes(product\_id, product\_name, customer\_id,date)

FK: (product\_id, product\_name) references products

FK: customer\_id references repeat\_cust

driver(driver\_id, driver\_name, driver\_salary)

delivery(driver\_id, driver\_name, order\_id)

FK: (driver\_id, driver\_name) references driver

FK: order\_id references order

driving\_license(driver\_name, license\_num, exp\_date)

FK: driver\_name references driver

category(category\_id, category\_name)

sub(category\_id, sub\_id)

FK: category\_id references category

categorization(category\_id, category\_name, product\_id, product\_name)

FK: (category\_id, category\_name) references category

FK: (product\_id, product\_name) references products