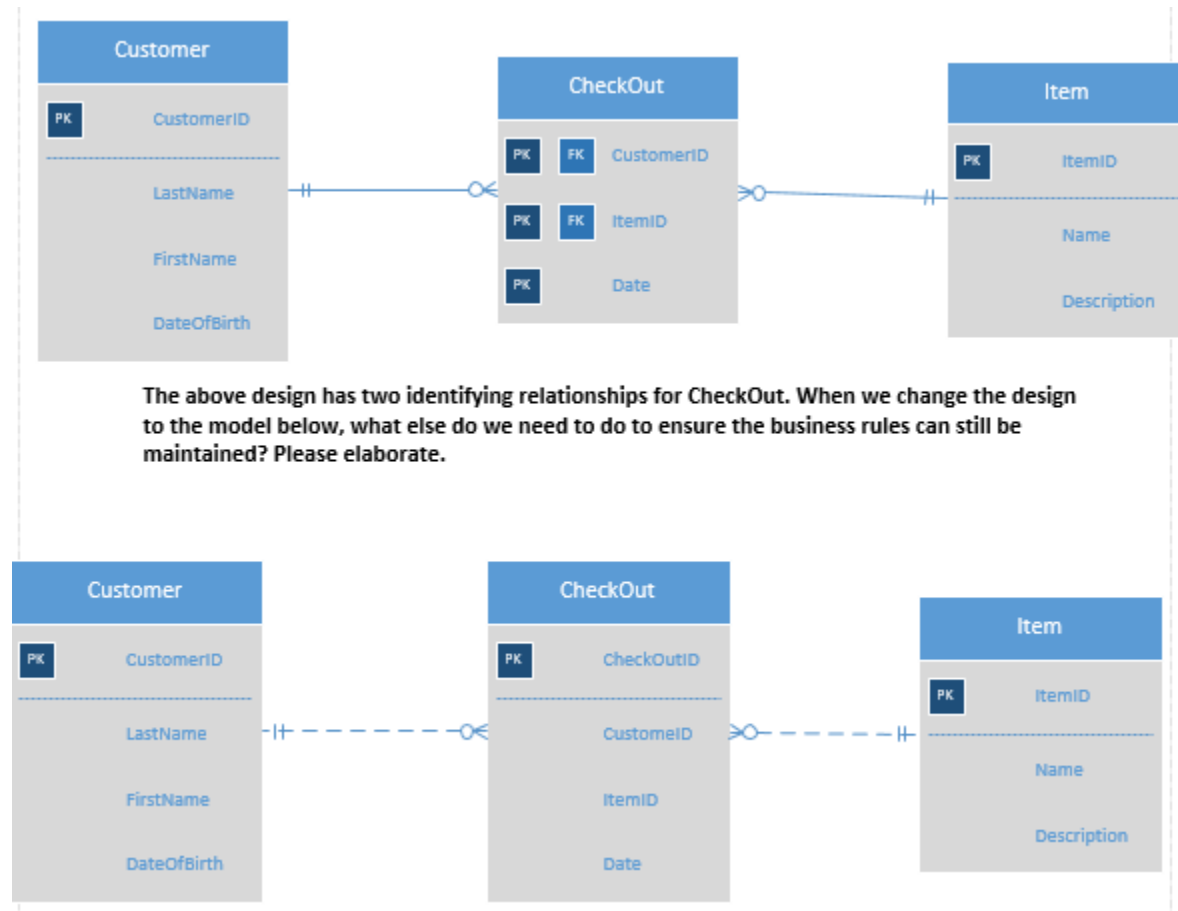


NUID Second Last Digit 4 or 5

Your NUID:

Your Name:

Question 1 (2 points)



Question 2 (6 points)

The Wang Research Institute conducts scientific research. Please design a database to support its research operations based on the business requirements listed below. **Normalize your design to the 3rd Normal Form.**

- 1) Researchers work on research projects. **A researcher may work on multiple projects simultaneously.**
- 2) **A researcher's specialties must be tracked.** Specialties are all coded. A specialty has a standard code.
- 3) **All specialties of a researcher need to be tracked.**
- 4) A researcher's publications must be tracked.
- 5) **A publication may be published by multiple researchers.**
- 6) **A publication covers a specialty, but sometimes a publication covers multiple specialties.**

/* ----- Question 3 (2 points) ----- */

/* Write a query to retrieve the **most recent order date** for each salesperson.
Include the **salesperson id, salesperson's last name, first name, email address**
and most recent order date (date only, don't display time) in the report.
Sort the returned data by the salesperson id. */

/* ----- Question 4 (2 points) ----- */

/* Write a query to retrieve the distinct customer id's
for the customers who have placed at least an order
before and have only purchased product(s) of the red color. Sort the
returned data by the customer id in the ascending order. */

/* ----- Question 5 (3 points) ----- */

/* Write a query to list the **most popular product color** based on the **total quantity sold**
for each month of 2006, considering all products sold in each month.
Return the most popular color and the total quantity of the sold products in that color
for each month in the returned data. Sort the returned data by month.
Exclude the products that don't have a specified color. */