Use the attached diagram to write relational algebra expressions to answer the following:

1. Find the first and last names of all customers with a room in our system named "Kitchen"

2. Find the first and last names of all customers who have used a paint color named "Shocking Red"

3. Find the business name of all contractors who do not have a phone number in our database.

4. Find the business name of all contractors who have neither a phone number in our system nor have been hired by a customer.

5. Find the business name of all contractors who have both a phone number in our system and have been hired by a customer.

REWARDS

r_id	points	cust_id

CUSTOMER_PHONE

cust_id	phone

CUSTOMER

cust_id	first	last	street	city	state	zip

HIRE

cust_id	bus_name	hours

ROOM

name	cust_id

CONTRACTOR

bus_name	discount

PAINTED

rm_name	cust-id	mfg_id	color_id

CONTRACTOR_PHONE

bus_name	phone

PAINT_COLOR

mfg_id	color_id	name