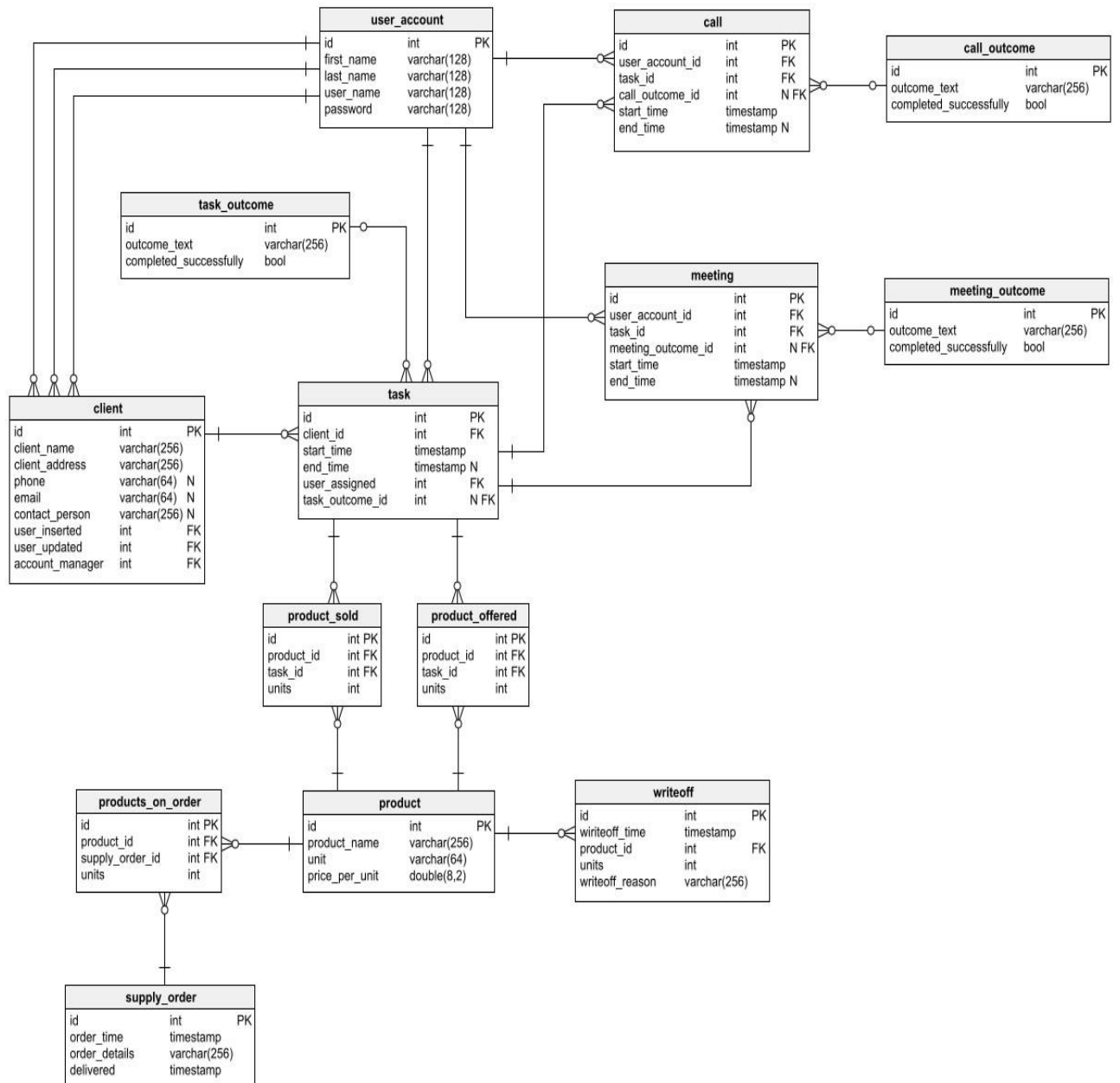


Name: ZOHAIB HASSAN SOOMRO

RollNo#: 19SW42

Subject: DBS

1. Convert Following Data Base into De normalization form.



Normalized Form:

User_Account

user_account_id	first_name	last_name	user_name	password

Call

call_id	user_account_id	task_id	call_outcome_id	start_time	end_time

Meeting

meeting_id	user_account_id	task_id	meeting_outcome_id	start_time	end_time

Task

task_id	client_id	start_time	end_time	user_assigned	task_outcome_id

Client

client_id	client_name	client_address	phone	email	contact_person	user_inserted	user_updated	account_manager

Product

product_id	product_name	product_unit	price_per_unit

Products_on_order

products_on_order_id	product_id	supply_order_id	units

Product sold

product_sold_id	product_id	task_id	units

Product offered

product_offered_id	product_id	task_id	units

Call_outcome

call_outcome_id	outcome_text	completed_successfully

Meeting_outcome

meeting_outcome_id	outcome_text	completed_successfully

Task_outcome

task_outcome_id	outcome_text	completed_successfully

Writeoff

writeoff_id	writeoff_time	product_id	units	writeoff_reason

Supply_order

supply_order_id	order_time	order_details	delivered

Denormalized Form:

DENORMALIZED FORM TABLES

[illegible][illegible]

product_sold_id	product_id	product_name	product_unit	price_per_unit	task_id	units

product_offered_id	product_id	product_name	product_unit	price_per_unit	task_id	units

[illegible]

writeoff_id	writeoff_time	product_id	product_name	product_unit	price_per_unit	units	writeoff_reason

[illegible]