Question 45-

Et Blogram Quetion, or off & flow moragement system; stemio,

You are tanked with designing an entity plebtionship (ep) diagram for a traffic flow management system (Tems).

Pask + entity identification and Attibudes.

Roads	[intersections]	Traffic signals	Profficalata
Pondid	Introdució d	Signal 10(px)	Praffic Dado (Ph)
Padrone 4		A STATE OF THE PARTY OF THE PAR	(Rado (FR)
length (m)	latitude	Signal states	piones stomp
speed timit	lorgitude	Plone	spend any estimilarel

Tonk-2

Relation ship Modelings.

Relationships: -

1. Rads to intendioni-

- 4 one Road up can connect to mouthple intersections
- * An intersection can host mostiple traffic data entities
- 2. Intersection to traffic signals:
- * one intersection can host motiple traffic dada entities cardinality and applicatific
- 1. Roads to intersection:

M. Polereddy

+ one read can connect to zero or more intersections

*one intersection can connect to one or a more roads

2. Tribulations to trafic Signals:

+ one intersection can have zero or more traffic signals

for traffic signal most be associated to one a more rocks intersection.

3. Roads to traffic data :-

* one load can have zur a more traffic data entities

" one traffic data entry may the associated with one

Tak-4: Juntfloodien and normalization

1. Scalability

* The design allows for easy addition of new roads, intersection traffic signals, and traffic data entities without modifying the size.

*Poad time Data processing;

* Real-time doda integration is translatted by the trafe data.

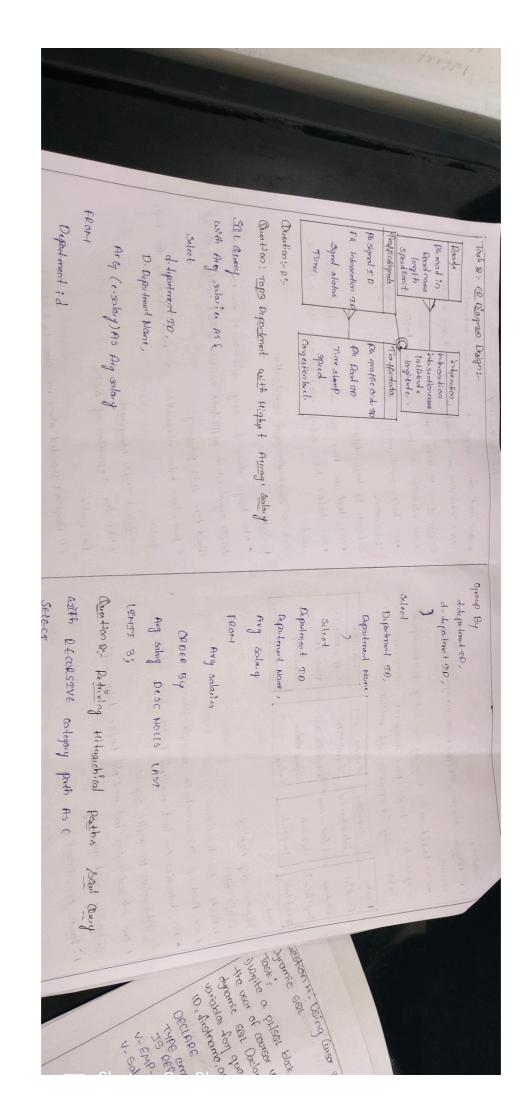
3. Efficient Praffic Management

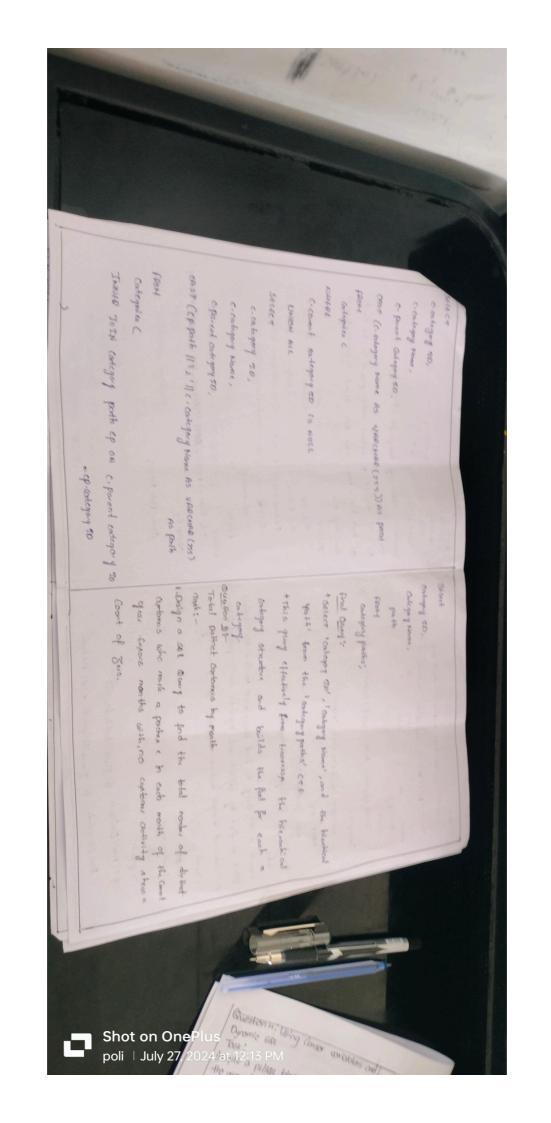
1 The clear separation of entities

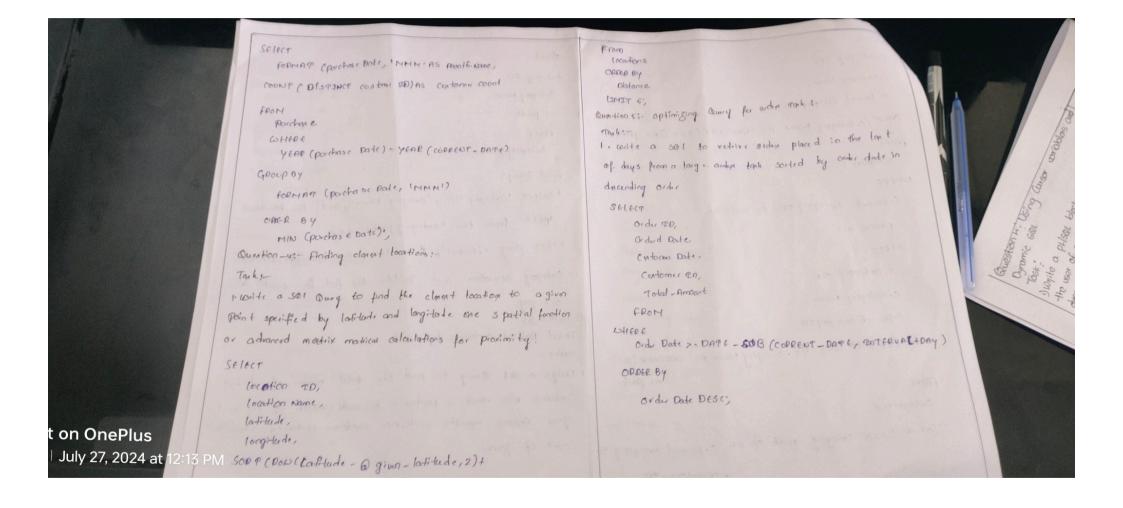
Dell rerablas -

ER Plagram; provided above in plan tent format entitles Definition; listed in toples

Relationship Descriptions







Uning corpor variables and Dynamic sect Q.5: Daigning pipelined function for sales data Tanke !-Disign a pipeline Pelsa E function get sales date that retries 1. write a pelson block demonstrating the ora of course voiables and dynamic sel. Declare a corsor variables Saly data for a given month and year. The foretien should retorn a table of records containing adu 20, contame 20, for graving employee ID, Fintname, and lost name based on specified saby theshold. and order amount for order placed to the specified month and year. DECLARE CREATE OR REPLACE TYPES Sales record AS OBJECT & Type emp-ocenor-type 25 Ref corsoR; Order - 1 d NONBER : V-tmp-copor. emp-cvAOR -type; contoner id NONBER 1 V-solary - thrushold Nomeer := 5000; order - amount NOMBER, V-Employee-id employees. employee-id 1. Pype; CREATE OR REPLACE Type sales - table IS TABLE of salarmod + . stat- name Employus . first - name x aype's ceense or Replace Fonction get sales data (p-month IN V- last name employees, lost named Type: NUMBER, PYCOI IN NUMBER) BEGIN. Peton sales. table PIPFIINEDOS OPEN V-CONP-CONOI FOR BEGIN Bellect employees-id, that name, lont-name FOR THE THE ARON employees select order-id, contomortid, order-amont WHERE palony >:1' FRON sales Useng v. SALARY - threshold; WHERE EXPRACT (Worth FROM order) = p-month AND EXTRACT (YEAR FROM ander-date) - P-Yearcop FERCH V- Emp-curror PNTO V-Employeeid, V- HATERON,) Loop PIPE ROW (Sales_record crec.order_1d, reacontomer_1d, V- lostname! EXIST WHEN V-EMP - CUISOR Y. NOTFOOND; Brdu-amount)); END 100 p; DBMS -output = LINE (Ifmpole ID: 1/V-empoloyacid) n OnePlus END' : Name: 111 V- flow to name 11 111 V- Ighnall END Loop: y 27, 2024 at

