NAME : P. Somo Sekhan Reddy

REGNO := 198311116

SUB := DBMS

SUBCODE := CSA0563

2. Intersection to inaffic signals := \* one road up can connect to multiple entersection. a) Intersection to maffee signals; tone entersection can host multiple traffic data entities \* An intersection can be connected by multiple roads for a traffic flow management system. \* one road can have zero or more traffic signals DROOMS to Intersection: " Roads to intersections;= \* one traffic signal must be associated with one intospection. If one road can connect to zero or more anti-Section. ER plagram Question: Traffic flow management system \* one sintersection can connect to one or more roads Task 8: Relationship modeling: you are treated with designing on Entity, Relationship (or) diagram Question 1: Speed 19most (km) Condinatity TOSK1 + entity edentification and Attributes. Scenario : Road IP(PK) Road Name Relationships " length(m) - Historoff op one Intersection "mensection id intersection rame 10 ngetude Latitude (25) maffic signals signal Idlpk) Intensection to Signal Status (James) Traffic pata-zalps Traffic bata And IDER 19meStamp speed level

those road can have zero or more traffic data entitles \* one traffic data entry must be associated with one road Roads to maffee pato :=

Tasky -

## Justification and Normalization :=

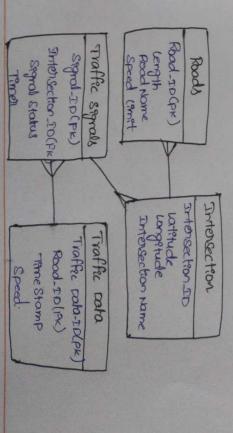
Real Teme pata Processing! thaffic signals, and traffic data enteres wethout modifying status. \* Real-time traffic data integration is faciliated by the toffic Scalability: \* The design allows for easy addition of new roads, intersection

Efficient Traffic mangement ? \* The Clear sepondtion of entitles

## Del Nonebles :

Entity personation: - Listed on task 1. ER diagram: Provided above on plain text format costed on task 1.

TASKS - ER DIOGRAM DESIRE -



```
question-1 = Top 3 pepartment with highest aways salony
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Questron -2:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 WITH ANG SLIDIEN ASC
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                                                                                                                                                                                                                                                                                 d. depositioned ID
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                                                                                                                                                                                                                                                             d. department Name
                                                                                                                                                                                                                                                                                                                                                                                                                 didepartment ID
                                                                                          FROM SOLDY
                                        ORDER BY
                                                                                                                                                                                                                                                                                                                                                                       And (e. saby) As my saloy
                                                                                                                                                                                                                                                                                                                                                                                                 d. department name,
                                                                                                                                                                                                                pepantment 10
And solony desc nor LAST
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                                                                                                                                                                                                Depositment Norme,
                                                                                                                             Department Name
                                                                 And Solonies
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category paths;

category ID category Name.

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Question-ii: Retriving the moched cotagony paths

gold away

whith Recursive cotagony path Asc

Select

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C. catagony name.

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C. panent catagony in is next

Select

C. panent catagony in is next

Select

C. catagony in.

C. catagony name.

C. catagony name.

C. catagony in.

C.
```

Home Too GROUP BY Question- :: ;= Total asstract customers by month. question-iv: Finding closest location question vi= optimiszing amony for order table. SELECT SELECT SELECT \* FRom orders WHERE Order date > pate sub (curdatec), Internal day) As month name 1 ORDER BY mon'TH Name order date 2 pate-sub(airdate), internal year) ordery order code Base; pate-Format (order date, (4.4-1/m) COUNT (DISCHAT CUSTOMEN ID) AS Location IP, location Name CUSTOMER COUNT (Radius (bothude)) Alos (Radius (-122-4194) (637\* AS OS(RODINS(37.7747)\* AS latitude, As distance. Rodius (tongitude) is an (Radius (latitude)) largetude

```
guestion-3:
                                                                                                                                                                                                                                    Sal Query
                                                                                                                                                                                                                                                     Task-2: updating rows with for All
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sal awy
                                                        uppared Employees
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Task 1: Harding Division operation.
                                                                                                                                                                                                                                                                                                                                                                 EXCEPTION
                                                                                                                                                                                                                   DECLARE
                                                                                                                                                                                                                                                                                            End;
                                                                                                                                                                                                                                                                                                                                                                                      OBMS_output_rene(Result: 1/1 result);
                                                                                                                                                                                                                                                                                                                                                                                                                 result = dividend/divisor;
                               set salony = salony * salony = ccc)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      divisor = & divisor;
                                                                           For All on Empeds. Forst ... - Empeds ... LAST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 dividend number = 100;
                                                                                                                                                                                                                                                                                                                                      is Not allowed);
Employee ID = Emp-odu(;);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          divisor number:
                                                                                                                                                                                            Empords DBMS-SQL number-Table :=
                                                                                                                                                                      DBms_sal. number_Table (101, 102, 103);
                                                                                                                    DBMS-SQL ramber to He (1000, 2000, 2000);
                                                                                                                                             Salony-the DBMS-SOL number. Take:=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       result number.
```

Task-4; using cursor volitables and syramic sec THSK-3 = Implementing Nested-Table procedure SOL QUERY SELECT WHERE rang 1857 FROM Employee ID, Forst Name, Last Name CREATE OR Replace PROCEDURE Get-Employees -By-Dept { where solony > v-solony. Threshold; DECLARE pepartment\_10=pidept\_od Employee ID, FAST Name, Last Name Employees FETCH V-EMPLLUYSOY INTO N-Employee-ed; N-FASt name; V-Last-name; OPEN V-EMP-CURSON FOR Employees OPEN PLEMP-INST FOR Type emp-cursor IS REF CURSOR; vemp\_cursor emp.cursor; v-last-name Employees. Last-Name 1. Type: v\_forst\_name employees. Porst\_name: 1. Type; v\_salony-threshold Number: = 50000; V-employee-ed Employee ID1/. Type: Prempiest out Sys-Refuceson P. dept-od IN Number

> CREATE OR Replace Type Sales-Table Is Table of Sales-Record Task-5: Designing pipelined function for sales bata CREATE OR Replace Function get\_Sales\_date (P. month IN Number, P. year) CREATE OR Replace Type sales-Record object ( EXCEPTION WHERE Extract (month from orderdate) = Primonth OBMS\_OUTPUT\_LINE ('ID': ||v=emplagee=d| | name: ||v=first name||" " || COUL MHEN N'EWD-CALDS, NOT EGOND! DBMS-output. Put-LINE ('AN Error occured: // SQLERM); AND RETURN GND Loop: CLOSE V-EMP-CURSORS END LOOP: 1000 Pipe ROW (Sales- Record (order ID, V-Customer ID)) Extract (year from order date) = P. year sales-table priperend order IP Number customento Number, Order-Amount Number IN Number) V\_bast name)

EZD: