Signal 19

Signal Status

Intersection (Francis)

Time stom

Intersection 19

Traderspection at 12:28 PM

Shot on One Plus

grad mm

Allustrate the yelationships between entities in the ex diagram (e.g. Roads connecting to intersections specify cordinality (are-to-are, are-to-no · many-to-many) and optionality constraints, (mandatory Vs optimal · Roads(1) \_\_\_ (connects to) \_\_\_ (1 or more) Cardinality: One road connects to one optionality: mandatory (every road must connect to all last one Intersections(1). (hods). (10 more) Cardinality: One intersection hots one or more traffic signals. optionality optional can intersection may not have any-traffic signals. Intersections (1) ... (generates) ---(1 or more) Traffic data Cardinality'- One intersection generates are or more-traffic

ptiorality: optional (an intersection may not have immediate traffic data if concors tout) Roads(1)... (has) -- (o or more) Traffic data conditality! One road can have zero or more traffic data entities. optionality; optional (not all roads might have real-time traffic Pata collected.

Draw the ER diagram for the TEMS, in corporate all identified entities, attributes and gelationships.

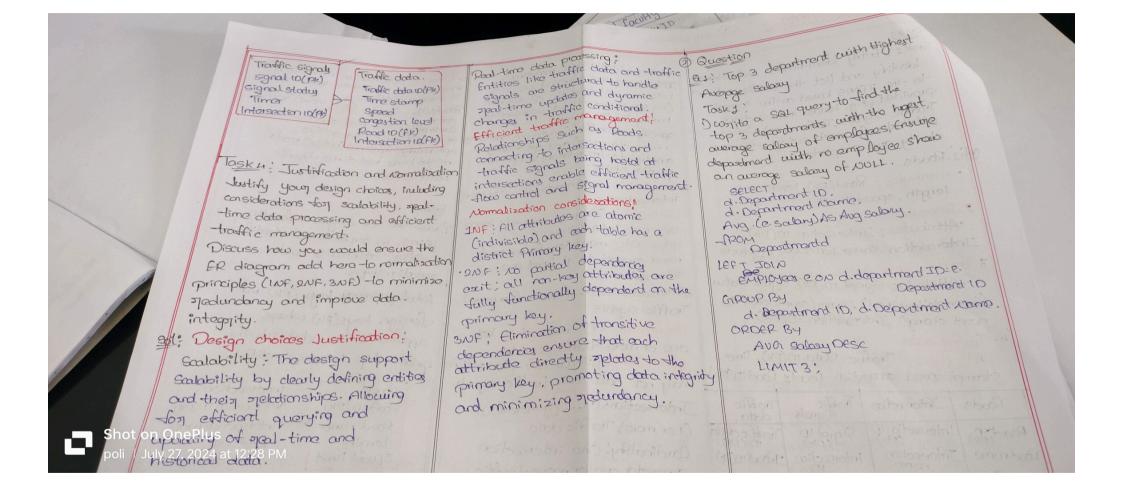
Label papinary keys (PK) and foreign keys (FK) where applicable to establish the spelationship between entities.

> Roads Road 10 (PK) Road name Length speed limit

Intersections Intersection 10/pic Intersection ramo latitude Longitude.

execut town

Student -ID



Q3 updating Rows with DER FORALL and update the statement CREATE DR REPLACE TYPES sales, record AS DECLAPE TYPE comp. id- array is TABLE of employees. Question H: Using Cursor voriables and Dynamic SQL Type sal-increment array is TABLED rumber order-id Number: customer-id number. Dwgite a pulsar black demonstrating FORALL; IN INDICES of Lempids the user of courser variables and CREATE OR PEPLACE Type sales table dynamic sol Declare a corsor IS TABLE of sales record variables for quering employee CREPTE OF PEPLACE FUNCTION got sale, UPPATE Employees SET Salary: Salary+V. V. Salarics(i) 10, firstname, and last rame. where employee id = v. emp-ids(i); data (P. month IN MIMBER. IN MIMBER DECLARE RETURN Sales - table, PIPELINEDIS TYPE emp-cursor-type commet; 3) Implementing Nested Table procedure IS REF CUPSOR; BEGIN V- EMP-cursor. emp-cusop-type; Implement a PILSAL procedure that for re V- Salary - throstold week := 5000: accepts a depart 10 as input. SECLECT Ordon v-employee-10 employee. employee. idx CREATE OR REPLACE PROCEDURE god. from sala v. lost rame employees. First rame Type: WHERE Extract (month from order) P. dept. id IN employees. Department id v-last name employees. Last name Turn employees by -dopl ? pand extract (year from order-date) BEGIN open v. emp\_cursor for P-Employees our says. PEFCURSOR SELECT employees id, first name, last Q3 Handling Division operation From employees. DECLARE DAS OPEN P. Employee POR SELECT employee-id, first-rame, WHERE salary 7:1 v-divided number : 100 USING V-salary-thersold; vi-divisor Number; DBMB -output : INt (if mpol ce 10: 1/2 V-result Number employee-id) ; parrolly-first\_ramell, v-divisor; divisor-inpul; WHERE department-id=P-dept-id; from amployees v-result: v-divided (v-divitor . V- Last rame. END LOOP END; WHERE Other then Designing pipelined function for DBMS OURput-Line ("An Excland error occared (1502 1 F pam); Shot on OnePlus END,

2015 (tom (rappy of Brow rappy of) POW (Imgitude - @ given - Longitude ))
PS distance white a sep query using recursive common entegory path:
Thom path:
Cartegory path. Tob Expressions (CTE) to retroise all artigo. nice along with their full heirarchical FROM path (e.g adagory > subadagory > subsab OPDER BY Question 3: Total district customers by 2. Design a soll query to find the total number of district customers who made a purchase Distance LOTTH RECURSIVE autogory path As C LIMIT 5 Question 5! optimizing Query for orders Tables SCIECT a purchase in each month category ID. D wante a soil avery to metricue SELECT FROM Courchage Pate; MMP) As marthname, adagory vame, orders placed in the last 7 days CAST (catagory same As VARCHAR(253)) COUNT (DISINCT CUStome 10) As customer count from a large order table. FROM As codegozy path Porchasos YEAR (Aurchase Rate): YEAR (CURRENT DATE) SELET adagorias order 10, WHERE Order Dame format (Porchage pate, 'mmm') parant category 10 IS NULL Order Dade, customer Amount ORDER 134 UNION ALL Customer 10 MIN (Airchago pate): SELECT Total Amount Question 4! C. cotegory 10. order Location. finding closest locations C. category Name, FROM CONCAT (CP. category path, >. Orders 1. Walte a sal Query to find the closest C. codegory Name) WHERE order Date > DATE SUBCURRENT make 5 location to a given point specified by FROM [ACTE JACOGSTON ] Latitude and langitude. categoriesc SELECT OPDER BY JO110 Location 10, Order Dode DESE. category pools cpow c. parent category in Location Name, =cp.codagory 1D. Latitude, OnePlus CLECT Longitude, category 10