Assignment

Name: CH-Pavan tei Reddy

Reg NO: 192372079

Date: 27-07-24

Course code: CSA 0963

Subject: DBMS

Question 1.

ER biagram Auestion: Traffic flow management system;

Sce nario-

diagram for a traffic flow management system (TFMs) You are treated with designing on entity on Relation still (eg

T NSSE :- entity identification ad Attibutes, among a

Reads Road ID(PW) JUHERTECTION intersection H Traffic & Ignal (भग्रवर कार्षेड maffic Data maffic Data ID(A)

speed itmitism) Longitude Road name Intersection name Intersection 20 (PK) Road 20 (TH) (M)4+6man Partitude signal status TIMEY speed congastion Timesamp

Task 22 Relationship modeling stumber words word

Relation ships-

PRODULE to intercentions

intersection to traffic signali-KAN intersection can be connected by multiple roads. Mone road up can connect to multiple intersection.

Cardinality and offinality: one intersection can host multiple traffic data entitles

Roads to antersection;

* ONE road ean connect to zero or more antersection,

A SSIGNIMENT Some intersection can connect to one or more roads.

one road can have zero or more traffic signals. thereis of trappic signation

* one mapping, signal must be associated with one intercention.

* One traffic data entry mut be associated with one * one read can have zero or more traffic data entites Roads to traffic data-

7000年 Page.

Justification and namalitation. Scalability:

out modifying the struct intersection traffic signals, and traffic data entiets with * The design albus for easy addition of new woods,

Real time soil Accounting.

Jevel Tevel

the traffic data. * Real-time traffic data integration is facitiated

EPPECENT TRAFFIC management?

* The clear experation of entities Peliverables -

Entity Defination; Lived EAdagram? Provided above in Plain tout format listed in take -I HUBT US

Relation ship Descriptions

Justification Document TOUR 32 ER Diagram Design.

PH Road ID Road Name speed Limit Length Roads

Tra Parc FK Intersection 30 PK signal ID signal status +imes signau

Question 2-

question it TOP a Departments with Lightly heat average Solary, before hood it miles property of the

Front. 165

with Avg salaries Ast Lothland

CALDIO BAY TY FLOID 5-27. BAY d'dePartment Names, d-department 10,4 or avoid balance - more

HROM DePartmented

LEFT Join Employees in department 10 = behaviorent 10

Intersection 10 Interve tions Intersection Name Laylyude John Bud

PH Read ID PH Traffic Date 10 Longestion Level Traffic Time stamp

TROB AV9 salony,

Avg salaries

Quartion 2; Retrievil Hier archical HEAT TIME STANDED BARDING BARD Catogral Bather

OITH RECURSIVE CATEGORY RATE AUT Frank 1/65

C. cat ogers name, C. category 10, C. Parent category 11

CAST (C. COLOGERY AJ VARCHARCEST) AS POLY,

GROUP BY

d. Yellartment 10, d-department name

SELECT DePartment Name, DePartment 10,

SELECT DePartment 10, DEPORTMENT Name,

SEL ect DEPartment 20, Depart ment name,

ORDER . BY

3) TO tal . Distinct customers by month; SPLECT COTE SORA. As month name 1. Category stratture and builds the fuel for each * This query efficiently transverse the girorchical 'Path'. from the 'Category Paths' DE, LINE WAS Extended * select 'category ID'. 'category name'. and the he hanchica) COHERE Final quary: CAUT (CP. BATH 111/>111/CCatogory Name AJ VARCHAR (255) AJ BATH 17 ands COHOGERY JD. INNER JOIN category Path CPON C-Parent category 10: CP. Date-Abrmat Corderdate, (y.y.y.m). Category Category Paths: Categores C. C-Parent Catogory ID IS NULL UNION ALL COMBOY ID, C. tategory 10, C-Parent Category 10, additions the selections C. Category Name, Category Name 8-96100 JULY TO IN WIMPER SAMPLIATERY SUIDINGS JON JABEL CHECKS LIES LEGICE BYTTE YOUR GOHEBE SEBONTHEON IN

> CUJ tomer count COUNT CONSTRUCT CONTONES ID) AL

WHERE Orders

FA. down Order date > Date : Sob (cardate () Internally year).

month name

4. Pinding -closest location:-

SELECT

Location 1P,

Location Hame, catitude

(Radius Chatitude)) Alus (Rodius (-102 May) (037 * (ntt. t8) rnybox) co c+ * (05)

Radius (Iongitude) is in (Radius (latiquae) As a listance. Bloom solomo solomore

s) optimising onery for oder toble SELECT * Prom o'dea.

where order date . I . Date sub (curate c), Internal dy) OHER BY. CHARMONEPHENDING OF BURNESS OF THE BORNESS OF THE BORNESS

Order Date Base;

CAD; Task 22 Updating xows with for all Begin Whore employee conem-197(1) (1000,0000,000), algo, ragunu. 168-7480 Declare Exception. U PLIATE EMPIDYEES Tauk it Handling ofversion operation Guestion-3-DECENE divided number -100% salary-line DBM1-sal number Jable End; DBMJ-391 number -70612 (1011/102/103)? emp- ids DBMJ-JAI number-jable DBMJ -OW Put - Line (REJUH: -11. REJUH); for all in emp-ids first -comp-ids -- Los7 divisor = · divisor; result = divided division; (Pamallo, + ou ri divisor number; result number; the har want conti (1) PADIOS, * FIDIOS - FROIDS

CAPIONES EMPLOYEE TO Y-THPE) BULK COILECT. +JOILOD DEMPINOS FROM EMPloyees Jable . of employees / Row Type: Jank 2, & whitementing Nested - Jabe . No coduce. COHERE Solary SISAIATY! emproyees first name > Type, Select * Create type emp-table-type is Tark-y-Salary ? Theresold number : = 2000; WHERE DEPOSTMENT ID; Greate (13) replace Procedure. BY DEBIN SURPRICE OF SURES MISSON sql-stmt= 13flect employee d, first name, last name Type emp-condor is REF curosas; From Employees SALLISTANT VARCHAR 2(500); Begins of the get - defoutment - employee .C O. JEPOHMEN - 10% D-dePostment - 7 dz N number. D-employee . Out emp-table-type) Pirst Name. emp-yet emp-cornwor? Gmd-Id.