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Course code: csacs93

Course Name: Database Management system for transaction Management

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1-learning Platform with Course Recommendations
1 create a database for an e-learning Platforms to manage Users,

courses, quizes

Requirements!

Design tables for users, coursess, modules, quizzes and completors tracking between courses and quizes

Write relation between courses and quires

new courses on completion history

A) Conceptual E.R.D Model:

-) Correctly identify entitles and relationships

-) Corrider adding an entity for category to turther normalise data

## Logical E.R.D Model:

well-defined artibutes for each entity

Consider adding a "status" artibute to the Envolument entity

Physical ERD Model:

-) Proper use of primary Keys, foreign keys, data types

-) Consider indiving columny used in WHERE, JOEN and ORDER BY

Envollments courses Users Envolument\_id (PK) Course-id(PK) user \_id (Pr) User - id (FK) tittle name course\_id (FK) description email enrollement-date catogery Palsword **Quizes** quiz -id (PK) Course-id (IK) Max- Score Passing. Score Quiz reult La Polladol Quiz-rualt (pk) User-id CFK) 9412-1d (FIZ) / Score Programme course recomendation recomendation id (PK) Oser-id(EK) recommender - course (EK) reason

conceptual E.R Diagram:

En Ex Diagram! Users Courses user-id (PK) Emollements name Course-id (PK) enrollements id (Px) tittle email User-id (FR) Password description course id (Fix) created-at registration-dote enrollement. dak catogery Quizes Quiz-id (P.K) Conul-19(th) question -count Max. Score passing -Score auiz resulty Results-id (PK) nser-ig (EK) quiz-id (FK) Score completion-date course Recomendation Recomendation\_iD(PK) DSer - 1920 Course - id (FK)

Recomendation-date

Physical E-R Diagram:		the state of the s
Prigs 1844		Enrollement
USER	courses	
User ~ id (INT, PK)	coursein (INT, PIC)	Envollement-id (IKT, F
Name (Vorchar(100))	Hitle (var char (100)	WSEYLID CINT, FK)
	description (TevT)	course-id CINT, FK)
Email (varchor (100))	Creekd-ar (Dak)	e mollement-date (DA)
Password (Varchar)		The selection of the contract
	1	
	Quizzes	
	Quíz id (INT, PK)	
	course id (INT, PK)	
	amation count (INT)	
	Hax. Score (INT)	
	Passing-Score CINT)	
agen.		
	Quie result	
	us-resultid CINT, PIC)	
	PEL-19 (INILEK)	
9	ucz-id (INT, FR)	
	BLOVE (INT)	
Co	mpletion -date (DATE)	
pos a suffrage	and the same of th	
Cour	re Peromendations	
	The same	
usar	nendation_id (INT, PE)	
	-id CINI, FK)	
	il sid (INT, FR)	
rea	SON (TexT)	
Recon	nendation-date (pate)	

1 Statements:

create Table Statements:

CREATE TABLE USERS (

USER-ID INT BEI MARN KEN

User Mame VAR CHAR (50),

Email VARCHAR (100)

Intrests TEXT

1

Create ToBle Modules (

MODULE-ID INT PRIMARYKIY,

LKT GI- DINI

Title VARCHAR (100);

CONTENT TEXT,

Category VARCHARISO)

> "

create toble enrollements (

ENROLLMENT - ID INT PRIMARY KEY,

FUSER-ID INT, COUNT-ID INT

. LOBE ICH KER ( OLES-ID)

References Users (User-ID)

FOREIGN KET (COURSE-ID)

BEEEBENCES COURSES (COURSE-ID)

creak toble course (

Course-ID(JNT, Primay ky)

THE VARCHARCION

Content TEXT,

Foreign key/course\_ID

5;

Creak table quires (

QUIZ-JO GNT PRIMARY KEY),

Course - ID INT,

Module-ID INT,

austion TEXT

FOREIGNKEY (course -ID)

References Courses (Course-ID)

Create Table completion (

completion ID INT PRIMARX

USER-ID INT, COURSE\_ID INT

Module-ID INT, QUIZID INT

Completion - DAR DATETIME,

FOREIGN KEY (USER-ID),

FOREIGN KEY (COURSE-IP)

FOREIGNKEY (Module-ID)

FOREIGKEY (Quiz-ID)

## Conclusion:

.. These SQL Statements Commente the database for Data Analytics System for E-Commerce recommandations. By this, Can improve the personalized shopping experience of every Customer and also increases sales and Conversion rates for merchants