Multi-LLM prompting

Prompt:

You are a database designer. Please create an Entity-Relationship (ER) diagram for the operations of a

Send

llama3

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erDiagram
STUDENT ||--o{ ENROLL : enrolls
PROFESSOR ||--o{ CLASSROOM : teaches
PROFESSOR ||--o{ DEPARTMENT : works_in
DEPARTMENT ||--o{ COURSE : offers
SCHOOL ||--o{ DEPARTMENT : contains
COURSE ||--o{ CLASSROOM : scheduled_in
ROOM ||--o{ CLASSROOM : hosts
BUILDING ||--o{ ROOM : has
STUDENT ||--o{ MEMBERSHIP : joins
GREEK_LIFE ||--o{ MEMBERSHIP : include
STUDENT ||--o{ ATTENDS : attends
CAMPUS_EVENTS ||--o{ ATTENDS : involve
STUDENT ||--o{ HOUSING_ASSIGNMENT : li
RESIDENTIAL_COLLEGE ||--o{ HOUSING_ASS
STUDENT ||--o{ SERVICE_USAGE : uses
TROJAN_SERVICES ||--o{ SERVICE_USAGE :
STUDENT ||--o{ LIBRARY_ACCESS : access
DOHENY_LIBRARY ||--o{ LIBRARY_ACCESS :
STUDENT ||--o{ PARTICIPATES : particip
TROJAN_ATHLETICS ||--o{ PARTICIPATES :

class STUDENT {
  STU_NUM (int, PK)
  DEPT_CODE (string, FK)
  STU_LNAME (string)
  STU_FNAME (string)
```

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erDiagram
    STUDENT --(ENROLL)--> CLASSROOM
    STUDENT --(PROFESSOR)--> PROFESSOR
    STUDENT --(MEMBER)--> GREEK_LIFE
    STUDENT --(ATTENDS)--> CAMPUS_EVEN
    STUDENT --(HOUSING_ASSIGNMENT)-->
    STUDENT --(SERVICE_USAGE)--> TROJA
    STUDENT --(LIBRARY_ACCESS) --> DOH
    STUDENT --(PARTCIPATES)--> TROJAN_


    PROFESSOR --(WORKS_IN)--> DEPARTME
    DEPARTMENT --(OFFERS)--> COURSE
    SCHOOL --(CONTAINS)--> DEPARTMENT
    COURSE --(SCHEDULED_IN)--> CLASSRO
    CLASSROOM --(HOSTS)--> ROOM
    BUILDING --(HAS)--> ROOM

    ENROLL --(STUDENT_NUMBER)--> STU_N
    ATTENDS --(STU_NUMBER) --> ATTENDS
    SERVICE_USAGE --(STU_NUMBER) --> S
    LIBRARY_ACCESS --(STU_NUMBER) -->


    GREEK_LIFE --(MEMBERSHIP)--> MEMBE
    CAMPUS_EVENTS --(ATTENDS)--> ATTEN
    RESIDENTIAL_COLLEGE --(HOUSING_ASS
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  STU_INITIAL (string)
  STU_EMAIL (string)
  PROF_NUM (int, FK)
  TROJAN_ID (int)
  USC_EMAIL (string)

class PROFESSOR {
  PROF_NUM (int, PK)
  DEPT_CODE (string, FK)
  PROF_SPECIALTY (string)
  PROF_RANK (string)
  PROF_LNAME (string)
  PROF_FNAME (string)
  PROF_INITIAL (string)
  PROF_EMAIL (string)

class DEPARTMENT {
  DEPT_CODE (string, PK)
  DEPT_NAME (string)
  SCHOOL_CODE (string, FK)
  PROF_NUM (int, FK)

class SCHOOL {
  SCHOOL_CODE (string, PK)
  SCHOOL_NAME (string)

class COURSE {
  CRS_CODE (string, PK)
  DEPT_CODE (string, FK)
  CRS_TITLE (string)
  CRS_DESCRIPTION (string)
  CRS_CREDIT (int)

class CLASSROOM {
  CLASS_CODE (string, PK)
  CLASS_SECTION (string)
  CLASS_TIME (date)
  CRS_CODE (string, FK)
  PROF_NUM (int, FK)
  ROOM_CODE (string, FK)

class ROOM {
```

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    TROJAN_SERVICES --(SERVICE_USAGE)
    DOHENY_LIBRARY --(LIBRARY_ACCESS)


    Membership (STU_NUM, GREEK_ID, JOI
    Attends (STU_NUM, EVENT_ID)
    Housing_Assignment (STU_NUM, HOUSI
    Service_Usage (STU_NUM, SERVICE_ID
    Library_Access (STU_NUM, LIBRARY_I
    Participation (STU_NUM, SPORT_ID,
```

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  ROOM_CODE (string, PK)
  ROOM_TYPE (string)
  BLDG_CODE (string, FK)

class BUILDING {
  BLDG_CODE (string, PK)
  BLDG_NAME (string)
  BLDG_LOCATION (string)

class DOHENY_LIBRARY {
  LIBRARY_ID (int, PK)
  LIBRARY_NAME (string)
  HOURS (date)
  SPECIAL_COLLECTIONS (string)

class TROJAN_ATHLETICS {
  SPORT_ID (int, PK)
  SPORT_NAME (string)
  SEASON (date)
  COACH_ID (int, FK)

class GREEK_LIFE {
  GREEK_ID (int, PK)
  GREEK_NAME (string)
  CHAPTER_TYPE (string)
  MEMBER_COUNT (int)

class CAMPUS_EVENTS {
  EVENT_ID (int, PK)
  EVENT_NAME (string)
  EVENT_DATE (date)
  VENUE (string)
  EVENT_TYPE (string)

class RESIDENTIAL_COLLEGE {
  HOUSING_ID (int, PK)
  BUILDING_NAME (string)
  ROOM_TYPE (string)
  CAPACITY (int)

class TROJAN_SERVICES {
  SERVICE_ID (int, PK)
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  SERVICE_NAME (string)
  LOCATION (string)
  HOURS (date)

class MEMBERSHIP {
  STU_NUM (int, FK)
  GREEK_ID (int, FK)
  JOIN_DATE (date, PK)

class ATTENDS {
  STU_NUM (int, FK)
  EVENT_ID (int, FK)
  ATTEND_DATE (date, PK)

class HOUSING_ASSIGNMENT {
  STU_NUM (int, FK)
  HOUSING_ID (int, FK)
  MOVE_IN (date)
  MOVE_OUT (date, PK)

class SERVICE_USAGE {
  STU_NUM (int, FK)
  SERVICE_ID (int, FK)
  USE_DATE (date, PK)

class LIBRARY_ACCESS {
  STU_NUM (int, FK)
  LIBRARY_ID (int, FK)
  ACCESS_DATE (date, PK)

class PARTICIPATES {
  STU_NUM (int, FK)
  SPORT_ID (int, FK)
  ROLE (string, PK)
```

Exercise for later - install two more models from https://ollama.com/library (including if you like, https://ollama.com/library/llama2-chinese), add two more columns above, put in code to send your prompt to FOUR LLMs and display their responses.