

Metacognition

DataBase Structure

users		
student_id	int(11)	primary_key, auto increment
name	varchar(50)	not null
password	varchar(200)	not null
email	varchar(50)	not null
class	varchar(20)	not null
branch	varchar(20)	not null

faculty_details		
faculty_id	int(11)	primary_key, auto increment
name	varchar(50)	not null
password	varchar(200)	not null
email	varchar(50)	not null

session		
session_id	bigint(20)	primary_key, auto increment
student_id	int(11)	foreign key (cascading)
date	date	not null
start_time	time	not null
end_time	time	not null
time_spent	time	not null

subject_details		
subject_id	int(11)	primary_key, auto increment
subject_name	varchar(20)	not null
faculty_id	int(11)	foreign key (cascading)

topic_details		
topic_id	int(11)	primary_key
topic_name	varchar(30)	not null
subject_id	int(11)	foreign key (cascading)

sub_topic_details		
sub_topic_id	int(11)	primary_key, auto increment
sub_topic_name	varchar(30)	not null
topic_id	int(11)	foreign key (cascading)
quiz_csv	varchar(35)	not null

topic_time_log		
session_id	bigint(20)	foreign key
subtopic_id	int(11)	not null
start_time	time	not null
end_time	time	not null
time_spent	time	not null

topic_switch_log		
session_id	bigint(20)	foreign key
current_topic_id	int(11)	not null
new_topic_id	int(11)	not null
type	varchar(10)	not null
start_time	time	not null
end_time	time	not null
time_spent	time	not null

question_switch_log		
session_id	bigint(20)	foreign key
topic_id	int(11)	foreign key (cascading)
type	int(11)	not null
init_ques_no	int(11)	not null
jumped_ques_no	int(11)	not null
choices	text	not null
time_spent	time	not null

resource_log		
session_id	bigint(20)	foreign key
sub_topic_id	int(11)	not null
doc1_id	text	not null
doc2_id	text	not null
flag_id	int(11)	not null
time_spent	time	not null
start_time	time	not null
end_time	time	not null

flag		
flag_id	int(11)	primary key
switch	varchar(15)	not null

documents		
doc_id	int(11)	primary key
sub_topic_id	int(11)	foreign key
doc_name	varchar(40)	not null

quiz_log		
session_id	bigint(20)	foreign key
topic_id	int(11)	foreign key
time_spent	time	not null
score	int(11)	not null
status	int(1)	not null
start_time	time	not null
end_time	time	not null

video		
video_id	int(11)	primary key
sub_topic_id	int(11)	foreign key
uri	varchar(35)	not null

Some use cases :

student 1 session one visited to resources 1, 2, 3 spent some fixed min reading each...,did not attempt quiz

student 1 session one, first visited to resources 1, 2, 3 spent some fixed min reading each..., then went on attempting a quiz, spent time, completed quiz with some scores in one attempt

student 1 session one visited to resources 1, 2, 3 spent some fixed min reading each...,again revisited some of the resources(track which ??) then went on attempting a quiz, spent time, completed quiz with some scores in one attempt

student 1 session one visited to resources 1, 2, 3 spent some fixed min reading each..., then went on attempting a quiz, spent time, completed quiz with some scores in one attempt but revisited the resources (relevant or irrele)in between

student 1 session one visited to resources 1, 2, 3 spent some fixed min reading each..., then went on attempting a quiz, spent time, did not complete quiz but revisited the resources relavent or irrelevant....

student 1 session one visited to resources 1, 2, 3 spent some fixed min reading each..., then went on attempting a quiz, spent time, completed quiz with some scores (low)in one attempt, re-attempted within the same session and scored high without revisiting the resources..

student 1 session one visited to resources 1, 2, 3 spent some fixed min reading each..., then went on attempting a quiz, spent time, completed quiz with some scores (low)in one attempt, re-attempted within the same session and scored high by revisiting the resources..