

Question Set 46

The principal of Ranabima School in Kandy intends to create a software to enter the information of teachers and students in that school. You are entrusted with the task of creating this software. Your team is tasked with developing the database of this software. Database development work is shared between you and everyone on the team. You are tasked with storing student and teacher information, creating the tables needed to store the subjects that teachers teach and the subjects that students learn. Use the instructions below to create it.

01) The principal of the school has decided to include the data of Grade 9 students in the first phase of this software. Your team has created a database for this. The name of the created database is "ranabima_sch_db". First, you need to select the created database. Create a DDL Query for that.

02) In the selected database, a table named "student" has been created to store the information of the students studying in grade 9 in the school, add the following data to the database you have created. Use DDL Query when entering data. Writing with DDL Query is mandatory to enter all data.

student_id	first_name	last_name	gender	home_contact_no	class
1	Thilina	Rajapaksha	Male	0712473589	9-B
2	Hasitha	Gunathilaka	Male	0663842579	9-C
3	Thilan	Rajakaruna	Male	0765104689	9-A
4	Sachithra	Nanayakkara	Female	0662458793	9-D
5	Almeda	Moses	Female	0758473251	9-E
6	Nisansala	Karunathilaka	Female	0662147935	9-B

03) In the database you originally created, a table is created as "subject" to store information on the main subjects taught in grade 9 in the school. Enter all the data in the table below in the created table. Use DDL Query to enter this data. Writing with DDL Query is mandatory to enter all data.

subject_id	subject_name
1	Religion
2	History
3	Science
4	Mathematics
5	English
6	Sinhala Language and Literature

04) In the database you created first, the table is created as "teacher" to store the information of the teachers who teach grades 9 in the school. Enter all the data in the table below in the created table. Use DDL Query to enter this data. Writing with DDL Query is mandatory to enter all data.

teacher_id	fiirst_name	last_name	gender	contact_no	email
1	Mala	Atthanayaka	Female	0710247589	mala@gmail.com
2	Piumi	Botheju	Female	0710465724	piumi@gmail.com
3	Ruwan	Rajapaksha	Male	0773648628	ruwan@gmail.com
4	Priyanka	Bandara	Female	0724568397	priyanka@gmail.com
5	Shila	Perera	Female	0777230784	shila@gmail.com

Question Set 47

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- 01) In the database you created first, a table called "teacher" is created to store the information of the teachers who teach grades 9 in the school. You need to add a column named teacher_reg to the created table. Your team leader has told you that the column you add must be with the not null. Create the required DDL Query.

teacher_id	teacher_reg
1	RTEA_001
2	RTEA_002
3	RTEA_003
4	RTEA_004
5	RTEA_005

- 02) In the teacher table that you have created, you need to enter the following data in the newly added teacher_id column. Create the required DDL Query. It is mandatory to write DDL Query to enter all the data.

- 03) In the database you created earlier, a table called "student" has been created to store the information of the students studying in grade 9 in the school. You need to add a column named student_index to the created table. Create the required DDL Query.

- 04) You need to enter the following data in the column named student_index entered in the student table you created. Create the required DDL Query. It is mandatory to write DDL Query to enter all the data.

student_id	student_index
1	RSTU_001
2	RSTU_002
3	RSTU_003
4	RSTU_004
5	RSTU_005
6	RSTU_006

- 05) All Grade 9 teachers in this school teach one or more subjects and to store that data add the following data to the "teacher_has_subject" table. Create the required DDL Query. It is mandatory to write DDL Query to enter all the data.

id	subject_id	teacher_id
1	1	1
2	2	2
3	2	3
4	3	4
5	3	2
6	3	3
7	4	4

- 06) A table named student_has_subject has been created to store all the subjects studied by the Grade 9 students in this school. You need to enter the data into the created table. Grade 9 students study all major subjects. Create the DDL Query needed to store those learning subjects. It is mandatory to write with DDL Query to enter all the data.

Question Set 48

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- 01) Change the first name of the 5th student on the student ID card to "Amanda" and make the relevant query.
- 02) teacher_id 2 The first name of the teacher should be changed to "Kamal", the last name to "Senadeera", the gender to "Male", the phone number to "0711568959" and the email address to "kamal@gmail.com". Make a query for it.
- 03) Search for "Ruwan Rajapaksha" teacher_id using the teacher table. Create the relevant query.
- 04) Find the teacher id of the teachers who teach Science. To do this, search, the teacher table and the teacher_has_subject tables. Create the required query.
- 05) Create a view named "view_subject" with View to view all the subjects. Use the subject table for that. Create the relevant query.

Question Set 49

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- 01) The school enters the data after installing this software. All school information is included in this software. The principal of the school informed us that the software had to be removed and reinstalled due to a virus in the computer. Imagine that you have chosen yourself for that. Here you can see that the database has to be backed up. To create a backup file, select the C Partition. Use "ranabima_sch_db_backup" as the name of the backup file. Create the required Backup Query for this.

Question Set 50

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- 01) After installing the operating system on the computer, the software was reinstalled. All previous data needs to be re-stored in the database. To do this, use the previously created "ranabima_sch_db_backup" file. Create the required Restore, Query.