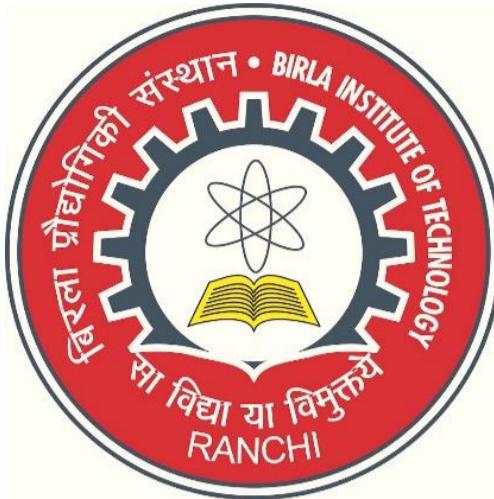


Birla Institute of Technology,Mesra



SOFTWARE ENGINEERING LAB ASSIGNMENT 03

Professor → Dr. Kamta Nath Mishra

NAME → SUBHOJEET GHOSH

ROLL NO. → BTECH/60017/19

COMPUTER SCIENCE ENGINEERING 5TH SEMESTER

Q. 1: Create data dictionaries for the selected modules of your project titled “Computerization of B.I.T. Mesra – Deoghar Campus”. (5 MARKS)

(i) Data Dictionary of Computer Science Module :-

(I) Student TABLE (CSE)

File 1:

1.1.1 File Name : Student Table

1.1.2 File Type : metadata

1.1.3 File Description : Stores the data of the student who registered in CSE department in BIT MESRA OFF CAMPUS DEOGHAR.

1.1.4 Number of Records in the File : 54

1.1.5 Table Created By : Subhojeet Ghosh

1.1.6 Attributes and Attribute types of the file :

student

Column	Type	Null	Default	Links to	Comments	Media type
rollNo (<i>Primary</i>)	int(11)	No				
Student_name	varchar(100)	Yes	<i>NULL</i>			
Gender	char(1)	Yes	<i>NULL</i>			
Student_address	varchar(100)	Yes	<i>NULL</i>			
Contact	mediumtext	Yes	<i>NULL</i>			
GPA	double	Yes	<i>NULL</i>			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	rollNo	0	A	No	

(2) Course TABLE (CSE)

File 2:

- 1.1.7 **File Name :** Course Table
- 1.1.8 **File Type :** metadata
- 1.1.9 **File Description :** Stores the data of the courses provided in CSE department 5th semester in BIT MESRA OFF CAMPUS DEOGHAR.
- 1.1.10 **Number of Records in the File :** 20
- 1.1.11 **Table Created By :** Subhojeet Ghosh
- 1.1.12 **Attributes and Attribute types of the file :**

course

Column	Type	Null	Default	Links to	Comments	Media type
Course_id (<i>Primary</i>)	varchar(50)	No				
Course_name	varchar(50)	No				
Course_credit	int(11)	Yes	NULL			
Course_Type	varchar(100)	Yes	NULL			
Time_per_class	varchar(100)	Yes	NULL			
Syllabus	varchar(500)	Yes	NULL			
Books	varchar(100)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Course_id	0	A	No	

(3) extracourse TABLE (CSE)

File 3:

- 1.1.13 **File Name :** extracourse Table
- 1.1.14 **File Type :** metadata
- 1.1.15 **File Description :** Stores the data of the extra courses (program Elective/open Elective/InDepth Specialization)choosed by students CSE department 5th semester in BIT MESRA Off CAMPUS DEOGHAR.
- 1.1.16 **Number of Records in the File :** 100
- 1.1.17 **Table Created By :** Subhojeet Ghosh
- 1.1.18 **Attributes and Attribute types of the file :**

extracourse

Column	Type	Null	Default	Links to	Comments	Media type
rollno	int(11)	Yes	NULL	student -> rollNo		
Course_id	varchar(100)	Yes	NULL			
Course_name	varchar(100)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
fk_rollno	BTREE	No	No	rollno	0	A	Yes	

(4) Faculty TABLE (CSE)

File 4:

- 1.1.19 **File Name :** faculty Table
- 1.1.20 **File Type :** metadata
- 1.1.21 **File Description :** Stores the data of the Faculty members of CSE department 5th semester in BIT MESRA OFF CAMPUS DEOGHAR.
- 1.1.22 **Number of Records in the File :** 100
- 1.1.23 **Table Created By :** Subhojeet Ghosh
- 1.1.24 **Attributes and Attribute types of the file :**

faculty

Column	Type	Null	Default	Links to	Comments	Media type
Facult_id (<i>Primary</i>)	varchar(100)	No				
Faculty_name	varchar(100)	No				
education	varchar(100)	Yes	NULL			
Sub_teaching	varchar(100)	Yes	NULL			
Contact	mediumtext	Yes	NULL			
Gender	char(1)	Yes	NULL			
Office_Loc	varchar(100)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Facult_id	0	A	No	

(5) loginRegister TABLE (CSE)

File 5:

- 1.1.25 **File Name :** loginregister Table
- 1.1.26 **File Type :** metadata
- 1.1.27 **File Description :** Stores the login Register Details .
- 1.1.28 **Number of Records in the File :** 100
- 1.1.29 **Table Created By :** Subhojeet Ghosh
- 1.1.30 **Attributes and Attribute types of the file :**

loginregister

Column	Type	Null	Default	Links to	Comments	Media type
Username (<i>Primary</i>)	varchar(100)	No				
Password	varchar(100)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Username	0	A	No	

(6) Mentor TABLE (CSE)

File 6:

- 1.1.31 **File Name :** mentors Table
- 1.1.32 **File Type :** metadata
- 1.1.33 **File Description :** Stores the Details of the mentors of the CSE department .
- 1.1.34 **Number of Records in the File :** 100
- 1.1.35 **Table Created By :** Subhojeet Ghosh
- 1.1.36 **Attributes and Attribute types of the file :**

mentor

Column	Type	Null	Default	Links to	Comments	Media type
Mentor_id (<i>Primary</i>)	int(11)	No				
Mentor_name	varchar(100)	Yes	NULL			
Specialization	varchar(100)	Yes	NULL			
Start_Rollno	int(11)	Yes	NULL			
End_Rollno	int(11)	Yes	NULL			
Contact	mediumtext	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Mentor_id	0	A	No	

(7) Attendance TABLE (CSE)

File 7:

1.1.37 **File Name :** Attendance Table

1.1.38 **File Type :** metadata

1.1.39 **File Description :** Stores the Attendance of students in the CSE department.

1.1.40 **Number of Records in the File :** 100

1.1.41 **Table Created By :** Subhojeet Ghosh

1.1.42 **Attributes and Attribute types of the file :**

attendance

Column	Type	Null	Default	Links to	Comments	Media type
rollno	int(11)	Yes	NULL	student -> rollNo		
class_name	varchar(100)	Yes	NULL			
TotalClass	int(11)	Yes	NULL			
ClassAttended	int(11)	Yes	NULL			
Percentage	int(11)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
fk_rollnumber	BTREE	No	No	rollno	0	A	Yes	

Computer Science Module Database :-

(1) Student Table

(2) Course Table

(3) extraCourse Table

(4) Faculty Table

(5) Mentor Table

(6) Attendance Table

(7) LoginRegister Table

(ii) Data Dictionary of Boys Hostel Module :-

(1) Boys Table

File 1:

- 1.1.1 **File Name :**Boys Table
- 1.1.2 **File Type :** metadata
- 1.1.3 **File Description :** Stores the data of students(Boys) in the College
- 1.1.4 **Number of Records in the File :** 300
- 1.1.5 **Table Created By :** Subhajeet Ghash
- 1.1.6 **Attributes and Attribute types of the file :**

boys

Column	Type	Null	Default	Links to	Comments	Media type
rollno (<i>Primary</i>)	int(11)	No				
Boys_name	varchar(100)	Yes	NULL			
RoomNo	int(11)	No				
Roommate_1	varchar(50)	Yes	NULL			
Roommate_2	varchar(50)	Yes	NULL			
Contact	mediumtext	Yes	NULL			
Hostel_name	varchar(20)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	rollno	0	A	No	

(2) Hostel Table

File 2:

- 1.1.7 **File Name :** Hostel Table
- 1.1.8 **File Type :** metadata
- 1.1.9 **File Description :** Stores the data of Hostels (Boys) in the College
- 1.1.10 **Number of Records in the File :** 5
- 1.1.11 **Table Created By :** Subhojeet Ghosh
- 1.1.12 **Attributes and Attribute types of the file :**

hostel

Column	Type	Null	Default	Links to	Comments	Media type
Hostel_name (<i>Primary</i>)	varchar(20)	No				
Hostel_Rooms	int(11)	Yes	NULL			
Hostel_contact	mediumtext	Yes	NULL			
Hostel_Warden	varchar(100)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Hostel_name	0	A	No	

(3) loginregister Table

File 3:

- 1.1.13 **File Name :** LoginRegister Table
- 1.1.14 **File Type :** metadata
- 1.1.15 **File Description :** Stores the login register details
- 1.1.16 **Number of Records in the File :** 5
- 1.1.17 **Table Created By :** Subhojeet Ghosh
- 1.1.18 **Attributes and Attribute types of the file :**

loginregister

Column	Type	Null	Default	Links to	Comments	Media type
Username (<i>Primary</i>)	varchar(100)	No				
Password	varchar(100)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Username	0	A	No	

(4) messmenu Table

File 4:

- 1.1.19 **File Name :** messmenu Table
- 1.1.20 **File Type :** metadata
- 1.1.21 **File Description :** Stores the mess menu of the boys hostels
- 1.1.22 **Number of Records in the File :** 10
- 1.1.23 **Table Created By :** Subhojeet Ghosh
- 1.1.24 **Attributes and Attribute types of the file :**

messmenu

Column	Type	Null	Default	Links to	Comments	Media type
Weekdays (<i>Primary</i>)	varchar(50)	No				
breakfast	varchar(100)	No				
Lunch	varchar(100)	No				
Snacks	varchar(100)	No				
Dinner	varchar(100)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Weekdays	0	A	No	

(5) MessTime Table

File 5:

1.1.25 File Name : messtime Table

1.1.26 File Type : metadata

1.1.27 File Description : Stores the mess timing details of the boys hostels

1.1.28 Number of Records in the File : 10

1.1.29 Table Created By : Subhojeet Ghosh

1.1.30 Attributes and Attribute types of the file :

messtime

Column	Type	Null	Default	Links to	Comments	Media type
Weekdays (<i>Primary</i>)	varchar(50)	No				
breakfast_time	varchar(100)	No				
Lunch_time	varchar(100)	No				
Snacks_time	varchar(100)	No				
Dinner_time	varchar(100)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Weekdays	0	A	No	

(6) MessTime Table

File 6:

- 1.1.31 **File Name :** messtime Table
- 1.1.32 **File Type :** metadata
- 1.1.33 **File Description :** Stores the mess details of the boys in hostel mess
- 1.1.34 **Number of Records in the File :** 10
- 1.1.35 **Table Created By :** Subhojeet Ghosh
- 1.1.36 **Attributes and Attribute types of the file :**

mess_details

Column	Type	Null	Default	Links to	Comments	Media type
Boys_name	varchar(100)	Yes	NULL			
rollno (<i>Primary</i>)	int(11)	No				
Mess_due	int(11)	Yes	NULL			
Mess_Advance	int(11)	Yes	NULL			
Account_Balance	int(11)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	rollno	0	A	No	

Boys Hostel Module Database :-

- (1) Boys Table**
- (2) MessMenu Table**
- (3) MessTime Table**
- (4) Mess_details Table**
- (5) Loginregister Table**
- (6) Hostel Table**

(iii) Data Dictionary of Boys Hostel Module :-

(I) Dbms Table

File 1:

- 1.1.1 **File Name :** dbms Table
- 1.1.2 **File Type :** metadata
- 1.1.3 **File Description :** Stores the Question paper along with option for Data base management System Subject
- 1.1.4 **Number of Records in the File :** 10
- 1.1.5 **Table Created By :** Subhojeet Ghosh
- 1.1.6 **Attributes and Attribute types of the file :**

dbms

Column	Type	Null	Default	Links to	Comments	Media type
Question_number (<i>Primary</i>)	int(11)	No				
Question	text	Yes	NULL			
OPTION_1	text	Yes	NULL			
OPTION_2	text	Yes	NULL			
OPTION_3	text	Yes	NULL			
OPTION_4	text	Yes	NULL			
answer	text	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Question_number	0	A	No	

(2) Dccn Table

File 2:

- 1.1.7 **File Name :** dccn Table
- 1.1.8 **File Type :** metadata
- 1.1.9 **File Description :** Stores the Question paper along with option for Data Communication and Computer networks Subject
- 1.1.10 **Number of Records in the File :** 10
- 1.1.11 **Table Created By :** Subhojeet Ghosh
- 1.1.12 **Attributes and Attribute types of the file :**

dccn

Column	Type	Null	Default	Links to	Comments	Media type
Question_number (<i>Primary</i>)	int(11)	No				
Question	text	Yes	NULL			
OPTION_1	text	Yes	NULL			
OPTION_2	text	Yes	NULL			
OPTION_3	text	Yes	NULL			
OPTION_4	text	Yes	NULL			
answer	text	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Question_number	0	A	No	

(3) FLAT Table

File 3:

- 1.1.13 **File Name :** Flat Table
- 1.1.14 **File Type :** metadata
- 1.1.15 **File Description :** Stores the Question paper along with option for Formal Language and automata theory Subject
- 1.1.16 **Number of Records in the File :** 10
- 1.1.17 **Table Created By :** Subhojeet Ghosh
- 1.1.18 **Attributes and Attribute types of the file :**

flat

Column	Type	Null	Default	Links to	Comments	Media type
Question_number (<i>Primary</i>)	int(11)	No				
Question	text	Yes	NULL			
OPTION_1	text	Yes	NULL			
OPTION_2	text	Yes	NULL			
OPTION_3	text	Yes	NULL			
OPTION_4	text	Yes	NULL			
answer	text	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Question_number	0	A	No	

(4) SE Table

File 4:

- 1.1.19 **File Name :** SE Table
- 1.1.20 **File Type :** metadata
- 1.1.21 **File Description :** Stores the Question paper along with option for Software Engineering Subject
- 1.1.22 **Number of Records in the File :** 10
- 1.1.23 **Table Created By :** Subhojeet Ghosh
- 1.1.24 **Attributes and Attribute types of the file :**

se

Column	Type	Null	Default	Links to	Comments	Media type
Question_number (<i>Primary</i>)	int(11)	No				
Question	text	Yes	NULL			
OPTION_1	text	Yes	NULL			
OPTION_2	text	Yes	NULL			
OPTION_3	text	Yes	NULL			
OPTION_4	text	Yes	NULL			
answer	text	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Question_number	0	A	No	

(5) OE Table

File 5:

- 1.1.25 **File Name :** OE Table
- 1.1.26 **File Type :** metadata
- 1.1.27 **File Description :** Stores the Question paper along with option for Open elective Subject
- 1.1.28 **Number of Records in the File :** 10
- 1.1.29 **Table Created By :** Subhojeet Ghosh
- 1.1.30 **Attributes and Attribute types of the file :**

oe

Column	Type	Null	Default	Links to	Comments	Media type
Question_number (<i>Primary</i>)	int(11)	No				
Question	text	Yes	NULL			
OPTION_1	text	Yes	NULL			
OPTION_2	text	Yes	NULL			
OPTION_3	text	Yes	NULL			
OPTION_4	text	Yes	NULL			
answer	text	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Question_number	0	A	No	

(6) PE Table

File 6:

- 1.1.31 **File Name :** PE Table
- 1.1.32 **File Type :** metadata
- 1.1.33 **File Description :** Stores the Question paper along with option for Program elective Subject
- 1.1.34 **Number of Records in the File :** 10
- 1.1.35 **Table Created By :** Subhojeet Ghosh
- 1.1.36 **Attributes and Attribute types of the file :**

pe

Column	Type	Null	Default	Links to	Comments	Media type
Question_number (<i>Primary</i>)	int(11)	No				
Question	text	Yes	NULL			
OPTION_1	text	Yes	NULL			
OPTION_2	text	Yes	NULL			
OPTION_3	text	Yes	NULL			
OPTION_4	text	Yes	NULL			
answer	text	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Question_number	0	A	No	

(7) Response Table

File 7:

- 1.1.37 **File Name :** Response Table
1.1.38 **File Type :** metadata
1.1.39 **File Description :** Stores the responses given by the students in the exams conducted in 5th semester
1.1.40 **Number of Records in the File :** 100
1.1.41 **Table Created By :** Subhojeet Ghosh
1.1.42 **Attributes and Attribute types of the file :**

response

Column	Type	Null	Default	Links to	Comments	Media type
Student_name	varchar(100)	Yes	NULL			
RollNo (<i>Primary</i>)	int(11)	No				
subject_code	varchar(100)	Yes	NULL			
Test_name	varchar(100)	Yes	NULL			
Res_1	text	Yes	NULL			
Res_2	text	Yes	NULL			
Res_3	text	Yes	NULL			
Res_4	text	Yes	NULL			
Res_5	text	Yes	NULL			
Res_6	text	Yes	NULL			
Res_7	text	Yes	NULL			
Res_8	text	Yes	NULL			
Res_9	text	Yes	NULL			
Res_10	text	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	RollNo	0	A	No	

(8) Result Table

File 8:

1.1.43 **File Name :** Result Table

1.1.44 **File Type :** metadata

1.1.45 **File Description :** Stores the result of students in different subjects exams conducted in 5th semester

1.1.46 **Number of Records in the File :** 100

1.1.47 **Table Created By :** Subhojeet Ghosh

1.1.48 **Attributes and Attribute types of the file :**

result

Column	Type	Null	Default	Links to	Comments	Media type
Student_name	varchar(100)	Yes	NULL			
rollNo (<i>Primary</i>)	int(11)	No				
SE	int(11)	Yes	NULL			
DCCN	int(11)	Yes	NULL			
FLAT	int(11)	Yes	NULL			
OE	int(11)	Yes	NULL			
PE	int(11)	Yes	NULL			
DBMS	int(11)	Yes	NULL			
final_result	double	Yes	NULL			
percent	double	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	rollNo	0	A	No	

(9) examination Table

File 9:

- 1.1.49 **File Name :** examination Table
- 1.1.50 **File Type :** metadata
- 1.1.51 **File Description :** Stores the subject names for which exams are conducted in 5th semester
- 1.1.52 **Number of Records in the File :** 100
- 1.1.53 **Table Created By :** Subhojeet Ghosh
- 1.1.54 **Attributes and Attribute types of the file :**

examination

Column	Type	Null	Default	Links to	Comments	Media type
Test_name (<i>Primary</i>)	varchar(100)	No				
subject_code	varchar(50)	No				
Duration	int(11)	Yes	NULL			
Questions_count	int(11)	Yes	NULL			
Question_type	varchar(50)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Test_name	0	A	No	

(10) Student Table

File 10:

- 1.1.55 **File Name :** student Table
1.1.56 **File Type :** metadata
1.1.57 **File Description :** Stores the name of student and other details who will give exams in 5th semester
1.1.58 **Number of Records in the File :** 100
1.1.59 **Table Created By :** Subhojeet Ghosh
1.1.60 **Attributes and Attribute types of the file :**

student

Column	Type	Null	Default	Links to	Comments	Media type
Student_name	varchar(100)	Yes	NULL			
RollNo (<i>Primary</i>)	int(11)	No				
Contact	mediumtext	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	RollNo	0	A	No	

Examination Module Database:-

- (1) Student table
- (2) Examination table
- (3) SE table
- (4) DE table
- (5) Dccn table
- (6) DBMS table
- (7) Flat Table
- (8) PE table
- (9) Response Table
- (10) Result table

(iv) Data Dictionary of Planning and Development Module :-

(I) Administrator Table

File 1:

- 1.1.1 **File Name :** Administrator Table
- 1.1.2 **File Type :** metadata
- 1.1.3 **File Description :** Stores the details of the administrator
- 1.1.4 **Number of Records in the File :** 10
- 1.1.5 **Table Created By :** Subhojeet Ghosh
- 1.1.6 **Attributes and Attribute types of the file :**

administrator

Column	Type	Null	Default	Links to	Comments	Media type
ad_name	varchar(100)	Yes	NULL			
Position <i>(Primary)</i>	varchar(100)	No				
Contact	mediumtext	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Position	0	A	No	

(2) Budget Table

File 2:

1.1.7 **File Name :** BudgetTable

1.1.8 **File Type :** metadata

1.1.9 **File Description :** Stores the budget details

1.1.10 **Number of Records in the File :** 20

1.1.11 **Table Created By :** Subhojeet Ghosh

1.1.12 **Attributes and Attribute types of the file :**

budget

Column	Type	Null	Default	Links to	Comments	Media type
Work_job (<i>Primary</i>)	varchar(100)	No				
Budget	mediumtext	Yes	NULL			
Labours_required	int(11)	Yes	NULL			
LabourCost	int(11)	Yes	NULL			
MaterialCost	mediumtext	Yes	NULL			
TotalCost	mediumtext	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Work_job	0	A	No	

(3) Planning_development Table

File 3:

1.1.13 **File Name :** Planning_development Table

1.1.14 **File Type :** metadata

1.1.15 **File Description :** Stores the name of PLANNING AND DEVELOPMENT DEPARTMENT AND OTHER DETAILS.

1.1.16 **Number of Records in the File :** 10

1.1.17 **Table Created By :** Subhojeet Ghosh

1.1.18 **Attributes and Attribute types of the file :**

planning_development

Column	Type	Null	Default	Links to	Comments	Media type
Department_name (<i>Primary</i>)	varchar(100)	No				
Contact	mediumtext	Yes	NULL			
Location_add	varchar(100)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Department_name	0	A	No	

(4) STAFF Table

File 4:

- 1.1.19 **File Name :** staff Table
- 1.1.20 **File Type :** metadata
- 1.1.21 **File Description :** Stores the staff DETAILS.
- 1.1.22 **Number of Records in the File :** 100
- 1.1.23 **Table Created By :** Subhojeet Ghosh
- 1.1.24 **Attributes and Attribute types of the file :**

staff

Column	Type	Null	Default	Links to	Comments	Media type
staff_name	varchar(100)	Yes	NULL			
id <i>(Primary)</i>	int(11)	No				
Contact	mediumtext	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	0	A	No	

(5) Student Table

File 5:

- 1.1.25 **File Name :** staff Table
- 1.1.26 **File Type :** metadata
- 1.1.27 **File Description :** Stores the student DETAILS.
- 1.1.28 **Number of Records in the File :** 100
- 1.1.29 **Table Created By :** Subhojeet Ghosh
- 1.1.30 **Attributes and Attribute types of the file :**

student

Column	Type	Null	Default	Links to	Comments	Media type
Student_name	varchar(100)	Yes	NULL			
rollNo (<i>Primary</i>)	int(11)	No				
Contact	mediumtext	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	rollNo	0	A	No	

(6) Suggestion Table

File 6:

1.1.31 **File Name :** suggestion Table

1.1.32 **File Type :** metadata

1.1.33 **File Description :** Stores the suggestion and idea provided by student or staff member of BITD.

1.1.34 **Number of Records in the File :** 100

1.1.35 **Table Created By :** Subhojeet Ghosh

1.1.36 **Attributes and Attribute types of the file :**

suggestion

Column	Type	Null	Default	Links to	Comments	Media type
User_type	varchar(100)	Yes	NULL			
UserName	varchar(100)	Yes	NULL			
Problem <i>(Primary)</i>	varchar(100)	No				
ideas	text	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	Problem	0	A	No	

(7) Workers Table

File 7:

1.1.37 **File Name :** worker Table

1.1.38 **File Type :** metadata

1.1.39 **File Description :** Stores the workers Details and their attendance details.

1.1.40 **Number of Records in the File :** 100

1.1.41 **Table Created By :** Subhojeet Ghosh

1.1.42 **Attributes and Attribute types of the file :**

workers

Column	Type	Null	Default	Links to	Comments	Media type
WorkerNo (<i>Primary</i>)	int(11)	No				
DaysWorked	int(11)	Yes	NULL			
TotalDays	int(11)	Yes	NULL			
Attendance	float	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	WorkerNo	0	A	No	

Planning and Development Module DataBase:-

(1) Administrator table

(2) Budget table

(3) Planning_development table

(4) Student Table

(5) Staff table

(6) Workers table

(7) Suggestion table

Q2 Prepare the normalized database (up to 3NF) for your selected modules of the project titled “Computerization of B.I.T. Mesra – Deoghar Campus) (5 MARKS)

(1) Computer Science Module :-

Student Table

Create Table:-

```
create table Student(
rollNo INT PRIMARY KEY,
Student_name VARCHAR (100),
Gender CHAR,
Student_address VARCHAR(100),
Contact LONG,
GPA DOUBLE
);
```

Describe Table:-

```
desc Student
```

Field	Type	Null	Key	Default	Extra
rollNo	int(11)	NO	PRI	NULL	
Student_name	varchar(100)	YES		NULL	
Gender	char(1)	YES		NULL	
Student_address	varchar(100)	YES		NULL	
Contact	mediumtext	YES		NULL	
GPA	double	YES		NULL	

Show data :-

```
select * from Student
```

rollNo	Student_name	Gender	Student_address	Contact	GPA
60001	GSS Trivikram	M	Bengalore,Karnataka	8102107484	8.5
60002	Salvia Fatima	F	Dharbhanga,Bihar	9155049899	8.4
60003	Atul Aditiya	M	Deoghar,Jharkhand	7739118848	8.7
60004	Suraj Kumar Mahato	M	Ranchi,Mesra,Jharkhand	7004203180	8.4
60010	Kumar Satyam	M	Jamshedpur,Jharkhand	7424903101	8
60014	Khushi Mishra	F	Deoghar,Jharkhand	8084581614	8.1
60017	Subhojeet Ghosh	M	Jamshedpur,Jharkhand	62065167869	8.9
60019	Abhishek Kumar Shah	M	Sirni,Jharkhand	6207406641	8.2

Course Table

Create Table:-

```
CREATE TABLE Course(
    Course_id VARCHAR(50) PRIMARY KEY,
    Course_name VARCHAR(50) NOT NULL,
    Course_credit INT,
    Course_Type VARCHAR(100),
    Time_per_class VARCHAR(100),
    Syllabus VARCHAR(500),
    Books VARCHAR (100)
);
```

Describe Table:-

Desc Course

Field	Type	Null	Key	Default	Extra
Course_id	varchar(50)	NO	PRI	NULL	
Course_name	varchar(50)	NO		NULL	
Course_credit	int(11)	YES		NULL	
Course_Type	varchar(100)	YES		NULL	
Time_per_class	varchar(100)	YES		NULL	
Syllabus	varchar(500)	YES		NULL	
Books	varchar(100)	YES		NULL	

Show Table:-

Select * from Course

Course_id	Course_name ↑	Course_credit	Course_Type	Time_per_class	Syllabus	Books
		NULL	NULL	NULL	NULL	NULL
CS301	Database Management System	3	Sessional	1	Module 1 Database Design and E...	Text Book Silberschatz A.et.al,Database System ...
IT301	Data Communication and Computer Networks	4	Sessional	1	Module 1 Data Communication a...	Text Book William Stalling, Data Communication ...
IT305	Software Engineering	3	Sessional	1	Module 1 Introduction to software...	Sommerville ,Software Engineering, 7th Edition,P...

Extracourse Table

Create table :-

```
Create Table ExtraSource(
    rollno INT,
    Course_id VARCHAR(100),
    Course_name VARCHAR(100),
    Course_Type VARCHAR(100),
    Syllabus Varchar(100),
    Books VARCHAR(100),
    CONSTRAINT fk_rollno FOREIGN KEY(rollno) REFERENCES Student(rollNo)
);
```

Describe table:-

```
desc extracourse
```

Field	Type	Null	Key	Default	Extra
rollno	int(11)	YES	MUL	NULL	
Course_id	varchar(100)	YES		NULL	
Course_name	varchar(100)	YES		NULL	

Show table:-

```
select * from extracourse
```

rollno	Course_id	Course_name
60003	IT322	Cloud Computing
60017	CS324	System Programming
60010	CS321	Soft Computing

Faculty Table

Create table:-

```
CREATE TABLE Faculty(
    Faculty_id VARCHAR(100) PRIMARY KEY,
    Faculty_name VARCHAR(100) NOT NULL,
    education VARCHAR(100),
    Sub_teaching VARCHAR(100),
    Contact LONG,
    Gender CHAR,
    Office_Loc VARCHAR(100)
);
```

Describe Table:-

```
Desc Faculty
```

Field	Type	Null	Key	Default	Extra
Faculty_id	varchar(100)	NO	PRI	NULL	
Faculty_name	varchar(100)	NO		NULL	
education	varchar(100)	YES		NULL	
Sub_teaching	varchar(100)	YES		NULL	
Contact	mediumtext	YES		NULL	
Gender	char(1)	YES		NULL	
Office_Loc	varchar(100)	YES		NULL	

Show Table:-

```
Select * from Faculty
```

Facult_id	Faculty_name	education	Sub_teaching	Contact	Gender	Office_Loc
CSHOD	DR. KAMTA NA...	MS(Software System)-Bits ...	Software Engineering	9695052989	NULL	2nd Floor Senior Faculty room, near RA Khan
CSMM	Mr RA Khan	MCA ,MTECH(CS)	Soft Computing	9006881224	NULL	2nd Floor Senior Faculty room, near Kn Mishra

Mentor Table

Create Table:-

```
create table Mentor(
    Mentor_id INT PRIMARY KEY,
    Mentor_name VARCHAR(100),
    Specialization VARCHAR(100),
    Start_Rollno INT,
    End_Rollno INT,
    Contact LONG
);
```

Describe Table:-

```
desc Mentor
```

Field	Type	Null	Key	Default	Extra
Mentor_id	int(11)	NO	PRI	NULL	
Mentor_name	varchar(100)	YES		NULL	
Specialization	varchar(100)	YES		NULL	
Start_Rollno	int(11)	YES		NULL	
End_Rollno	int(11)	YES		NULL	
Contact	mediumtext	YES		NULL	

Show Table:-

```
Select * from Mentor
```

Mentor_id	Mentor_name	Specialization	Start_Rollno	End_Rollno	Contact
1	MR RA KHAN	MCA ,MTECH	60001	60004	7895608495
2	DR KAMTA NATH MI...	PHD From BIT MESRA	60010	60019	9879467531

Attendance Table

Create Table:-

```
create Table Attendance(
    rollno INT,
    class_name VARCHAR(100),
    TotalClass INT,
    ClassAttended INT,
    Percentage INT,
    CONSTRAINT fk_rollnumber FOREIGN KEY(rollno) REFERENCES Student(rollNo)
);
```

Describe Table:-

```
desc Attendance
```

Field	Type	Null	Key	Default	Extra
rollno	int(11)	YES	MUL	NULL	
class_name	varchar(100)	YES		NULL	
TotalClass	int(11)	YES		NULL	
ClassAttended	int(11)	YES		NULL	
Percentage	int(11)	YES		NULL	

Show Table:-

```
Select * from Attendance
```

rollno ↑	class_name	TotalClass	ClassAttended	Percentage
abc Filter...	abc Filter...	abc Filter...	abc Filter...	abc Filter...
60001	Software Engineering	20	15	75
60001	DataBase Management System	25	20	80
60003	Data Base Management System	25	15	60
60003	Software Engineering	20	12	60

Loginregister Table

Create Table :-

```
CREATE TABLE LoginRegister(  
    Username VARCHAR(100) PRIMARY KEY,  
    Password VARCHAR (100)  
)
```

Describe Table:-

```
desc LoginRegister
```

Field	Type	Null	Key	Default	Extra
Username	varchar(100)	NO	PRI	NULL	
Password	varchar(100)	YES		NULL	

Show Table:-

```
Select * from loginregister
```

Username	Password
AtulCSK	allout123
Khushi Mishra	ilovepizza
Subhojeet	subho3456
SurajKumar	roomNo1

(2) Boys Hostel Module

Boys Table

Create Table :-

```
create Table Boys(
    rollno INT PRIMARY KEY,
    Boys_name VARCHAR(100),
    RoomNo INT Not Null,
    Roommate_1 VARCHAR(50),
    Roommate_2 VARCHAR(50),
    Contact LONG,
    Hostel_name Varchar (20)
);
```

Describe Table:-

```
desc Boys
```

Field ↑	Type	Null	Key	Default	Extra
rollno	int(11)	NO	PRI	NULL	
Boys_name	varchar(100)	YES		NULL	
RoomNo	int(11)	NO		NULL	
Roommate_1	varchar(50)	YES		NULL	
Roommate_2	varchar(50)	YES		NULL	
Contact	mediumtext	YES		NULL	
Hostel_name	varchar(20)	YES		NULL	

Show table:-

```
Select * from boys
```

rollno ↑	Boys_name	RoomNo	Roommate_1	Roommate_2	Contact	Hostel_name
60001	GSS TriVikram	27	Shubham Raj	--	67960690606	BH1
60017	Subhojeet Ghosh	1	Atul Aditiya	Suraj Kumar Mahato	57676969060	BH1
60023	Anupam Prakash	6	Rounik Parahsar	Piyush	56785435789	BH1
60027	Shubham jha	4	Rishabh Raj	--	55688954433	BH1

Hostel Table

Create table:-

```
create Table hostel(
    Hostel_name VARCHAR(20) PRIMARY KEY,
    Hostel_Rooms INT,
    Hostel_contact Long,
    Hostel_Warden VARCHAR(100)
);
```

Describe table:-

```
desc hostel
```

Field	Type	Null	Key	Default	Extra
Hostel_name	varchar(20)	NO	PRI	NULL	
Hostel_Rooms	int(11)	YES		NULL	
Hostel_contact	mediumtext	YES		NULL	
Hostel_Warden	varchar(100)	YES		NULL	

Show Table:-

```
Select * from Hostel
```

Hostel_name ↑	Hostel_Rooms	Hostel_contact	Hostel_Warden
BH1	50	45786763994	DR KN MISHARA
BH2	50	69345678899	Mr Sounak Paul

Loginregister Table

Create Table :-

```
CREATE TABLE LoginRegister(  
    Username VARCHAR(100) PRIMARY KEY,  
    Password VARCHAR (100)  
)
```

Describe Table:-

```
desc LoginRegister
```

Field	Type	Null	Key	Default	Extra
Username	varchar(100)	NO	PRI	NULL	
Password	varchar(100)	YES		NULL	

Show Table:-

```
Select * from loginregister
```

Username	Password
Anupam123	6789
Rabish44	34221
Rounikpro	544443
subho2810	12345

MessMenu Table

Create Table:-

```
create Table MessMenu(  
Weekdays VARCHAR(50) PRIMARY KEY,  
breakfast VARCHAR(100) NOT NULL,  
Lunch VARCHAR(100) NOT NULL,  
Snacks VARCHAR(100) NOT NULL,  
Dinner VARCHAR(100) NOT NULL  
);
```

Describe table:-

```
desc messmenu
```

Field ↑	Type	Null	Key	Default	Extra
abc Filter...					
Weekdays	varchar(50)	NO	PRI	NULL	
breakfast	varchar(100)	NO		NULL	
Lunch	varchar(100)	NO		NULL	
Snacks	varchar(100)	NO		NULL	
Dinner	varchar(100)	NO		NULL	

Show Table:-

```
Select * from messmenu
```

Weekdays	breakfast	Lunch	Snacks	Dinner
abc Filter...	abc Filter...	abc Filter...	abc Filter...	abc Filter...
Monday	Chole puri	Rice , Daal , paneer	Maggi,tea	Rice ,Daal ,Roti, mix veg
Sunday	Chole Bhature	Rice , Daal ,Sabji	Tea and Biscuit	Rice, Roti ,Chicken
Tuesday	Corn Flakes	Jeera Rice , Daal, Kofta	Samosa , Jalebi	Rice DAAI, Roti,Sabji ,custard
Wednesday	Puri , sabji	Rice , daal ,sabji	Chips, Tea	biryani

MessTime Table

Create Table:-

```
create Table Messtime(
Weekdays VARCHAR(50) PRIMARY KEY,
breakfast_time VARCHAR(100) NOT NULL,
Lunch_time VARCHAR(100) NOT NULL,
Snacks_time VARCHAR(100) NOT NULL,
Dinner_time VARCHAR(100) NOT NULL
);
```

Describe table:-

```
desc messtime
```

Field	Type	Null	Key	Default	Extra
Weekdays	varchar(50)	NO	PRI	NULL	
breakfast_time	varchar(100)	NO		NULL	
Lunch_time	varchar(100)	NO		NULL	
Snacks_time	varchar(100)	NO		NULL	
Dinner_time	varchar(100)	NO		NULL	

Show Table:-

```
Select * from messtime
```

Weekdays ↑	breakfast_time	Lunch_time	Snacks_time	Dinner_time
Monday	8.00 - 9.00	13.00 - 14.30	17.40 - 19.00	21.00 - 22.30
Sunday	8.00 - 10.00	12.00 - 14.00	17.30 - 19.00	20.30 - 21.30

Mess_details Table

Create Table:-

```
create Table Mess_Details(  
    Boys_name VARCHAR(100),  
    rollno INT PRIMARY KEY,  
    Mess_due INT,  
    Mess_Advance INT,  
    Account_Balance INT  
)
```

Describe table:

```
desc mess_details
```

Field	Type	Null	Key	Default	Extra
Boys_name	varchar(100)	YES		NULL	
rollno	int(11)	NO	PRI	NULL	
Mess_due	int(11)	YES		NULL	
Mess_Advance	int(11)	YES		NULL	
Account_Balance	int(11)	YES		NULL	

Show Table:-

```
Select * from mess_details
```

Boys_name	rollno	Mess_due	Mess_Advance	Account_Balance
Atul Aditiya	60003	1000	4000	3000
Subhojeet Ghosh	60017	0	3000	3000

:OO End Of Boys Hostel Module Data Base ✓ :

(3) Examination Module :-

Examination Table:-

Create Table:-

```
create table examination(
    Test_name VARCHAR(100) PRIMARY KEY,
    subject_code VARCHAR(50) NOT NULL,
    Duration INT,
    Questions_count INT,
    Question_type VARCHAR(50)
);
```

Describe table

```
desc examination
```

Field ↑	Type	Null	Key	Default	Extra
abc Filter...	abc Filter...	abc Filter...	abc Filter...	abc Filter...	abc Filter...
Test_name	varchar(100)	NO	PRI	NULL	
subject_code	varchar(50)	NO		NULL	
Duration	int(11)	YES		NULL	
Questions_count	int(11)	YES		NULL	
Question_type	varchar(50)	YES		NULL	

Show Table:-

```
Select * from examination
```

Test_name	subject_code	Duration	Questions_count	Question_type
abc Filter...	abc Filter...	abc Filter...	abc Filter...	abc Filter...
DBMS	CS301	1	10	Multiple Choice Question
DCCN	IT301	1	10	Multiple Choice Question
FLat	CS208	1	10	Multiple Choice Question
Software Engineering	IT305	1	10	Multiple Choice Question

DCCN Table

Create Table:-

```
Create Table DCCN(
    Question_number INT PRIMARY KEY,
    Question TEXT,
    OPTION_1 TEXT,
    OPTION_2 TEXT,
    OPTION_3 TEXT,
    OPTION_4 TEXT,
    answer TEXT
);
```

Describe table

```
DESC dccn
```

Field	Type	Null	Key	Default	Extra
Question_number	int(11)	NO	PRI	NULL	
Question	text	YES		NULL	
OPTION_1	text	YES		NULL	
OPTION_2	text	YES		NULL	
OPTION_3	text	YES		NULL	
OPTION_4	text	YES		NULL	
answer	text	YES		NULL	

Show Table:-

```
Select * from dccn
```

Question_number	Question	OPTION_1	OPTION_2	OPTION_3	OPTION_4	answer
1	Which of these is a standard in...	ASCII	RS232C	2	Centronics	RS232C
2	Which of the following transmi...	Simplex	Half Duplex	Full Duplex	Double Duplex	Double Duplex
3	"Parity bits" are used for which...	Encryption of data	To transmit faster	To detect errors	To identify the user	To detect errors
4	The term HTTP stands for?	Hyper terminal tracing ...	Hypertext tracing protocol	Hypertext transfer pr...	Hypertext transfer program	Hypertext transfer protocol

DBMS Table

Create Table:-

```
Create Table DBMS(
    Question_number INT PRIMARY KEY,
    Question TEXT,
    OPTION_1 TEXT,
    OPTION_2 TEXT,
    OPTION_3 TEXT,
    OPTION_4 TEXT,
    answer TEXT
);
```

Describe table

```
DESC dbms
```

Field	Type	Null	Key	Default	Extra
Question_number	int(11)	NO	PRI	NULL	
Question	text	YES		NULL	
OPTION_1	text	YES		NULL	
OPTION_2	text	YES		NULL	
OPTION_3	text	YES		NULL	
OPTION_4	text	YES		NULL	
answer	text	YES		NULL	

Show Table:-

```
Select * from dbms
```

Question_number	Question	OPTION_1	OPTION_2	OPTION_3	OPTION_4	answer
1	An attribute that is not part of any candidate ...	sub-prime attribute	non-prime attribute	sub-candidate key	non-candidate key	non-prime attribute
2	How many rules in "CODD'S RULES" of Rela...	12	11	15	14	12
3	An attribute of a table cannot hold multiple va...	3NF	1NF	2NF	BCNF	1NF
4	A key that consists of more than one attribute...	Composite key	Candidate Key	Primary Key	Foreign Key	Composite Key

OE table

Create Table:-

```
Create Table OE(
    Question_number INT PRIMARY KEY,
    Question TEXT,
    OPTION_1 TEXT,
    OPTION_2 TEXT,
    OPTION_3 TEXT,
    OPTION_4 TEXT,
    answer TEXT
);
```

Describe table

```
DESC oe
```

Field	Type	Null	Key	Default	Extra
Question_number	int(11)	NO	PRI	NULL	
Question	text	YES		NULL	
OPTION_1	text	YES		NULL	
OPTION_2	text	YES		NULL	
OPTION_3	text	YES		NULL	
OPTION_4	text	YES		NULL	
answer	text	YES		NULL	

Show Table:-

```
Select * from oe
```

Question_number	Question	OPTION_1	OPTION_2	OPTION_3	OPTION_4	answer
1	Number of states of FSM required to s...	$m \times 2^n$	2^{\min}	$2^{(m+n)}$	All of the mentioned	2^{\min}
2	The transitional function of a DFA is	$Q \times \Sigma \rightarrow Q$	$Q \times \Sigma \rightarrow 2Q$	$Q \times \Sigma \rightarrow 2n$	$Q \times \Sigma \rightarrow Q^n$	$Q \times \Sigma \rightarrow Q$
3	The transitional function of a NFA is	$Q \times \Sigma \rightarrow Q$	$Q \times \Sigma \rightarrow 2Q$	$Q \times \Sigma \rightarrow 2n$	$Q \times \Sigma \rightarrow Q^n$	$Q \times \Sigma \rightarrow 2Q$
4	Maximum number of states of a DFA c...	n	2^n	2n	None Of the above	2n

PE table

Create Table:-

```
Create Table PE(
    Question_number INT PRIMARY KEY,
    Question TEXT,
    OPTION_1 TEXT,
    OPTION_2 TEXT,
    OPTION_3 TEXT,
    OPTION_4 TEXT,
    answer TEXT
);
```

Describe table

```
DESC pe
```

Field	Type	Null	Key	Default	Extra
Question_number	int(11)	NO	PRI	NULL	
Question	text	YES		NULL	
OPTION_1	text	YES		NULL	
OPTION_2	text	YES		NULL	
OPTION_3	text	YES		NULL	
OPTION_4	text	YES		NULL	
answer	text	YES		NULL	

Show Table:-

```
Select * from pe
```

Question_number	Question	OPTION_1	OPTION_2	OPTION_3	OPTION_4	answer
1	What is the first step in the...	System Design	Coding	System Testing	Preliminary Investigatio...	Preliminary Investigation and A...
2	What does the study of an...	Details of DFD	Feasibility Study	System Analysis	System Planning	System Analysis
3	What does RAD stand for?	Rapid Application D...	Rapid Application D...	Relative Applicati...	None of the above	Rapid Application Development
4	Which of the following prot...	Domain Prototype	Vertical Prototype	Horizontal Prototype	Diagonal Prototype	Diagonal Prototype

Flat Table

Create Table:-

```
Create Table FLAT(
    Question_number INT PRIMARY KEY,
    Question TEXT,
    OPTION_1 TEXT,
    OPTION_2 TEXT,
    OPTION_3 TEXT,
    OPTION_4 TEXT,
    answer TEXT
);
```

Describe table

```
DESC flat
```

Field	Type	Null	Key	Default	Extra
abc Filter...	abc Filter...	abc Filter...	abc Filter...	abc Filter...	abc Filter...
Question_number	int(11)	NO	PRI	NULL	
Question	text	YES		NULL	
OPTION_1	text	YES		NULL	
OPTION_2	text	YES		NULL	
OPTION_3	text	YES		NULL	
OPTION_4	text	YES		NULL	
answer	text	YES		NULL	

Show Table:-

```
Select * from flat
```

Question_number	Question	OPTION_1	OPTION_2	OPTION_3	OPTION_4	answer
abc Filter...	abc Filter...	abc Filter...	abc Filter...	abc Filter...	abc Filter...	abc Filter...
1	Number of states of FSM required to s...	$m \times 2^n$	2^{mn}	$2^{(m+n)}$	All of the mentioned	2^{mn}
2	The transitional function of a DFA is	$Q \times \Sigma \rightarrow Q$	$Q \times \Sigma \rightarrow 2Q$	$Q \times \Sigma \rightarrow 2n$	$Q \times \Sigma \rightarrow Q^n$	$Q \times \Sigma \rightarrow Q$
3	The transitional function of a NFA is	$Q \times \Sigma \rightarrow Q$	$Q \times \Sigma \rightarrow 2Q$	$Q \times \Sigma \rightarrow 2n$	$Q \times \Sigma \rightarrow Q^n$	$Q \times \Sigma \rightarrow 2Q$
4	Maximum number of states of a DFA c...	n	2^n	2n	None Of the above	2n

SE Table

Create Table:-

```
Create Table SE(
    Question_number INT PRIMARY KEY,
    Question TEXT,
    OPTION_1 TEXT,
    OPTION_2 TEXT,
    OPTION_3 TEXT,
    OPTION_4 TEXT,
    answer TEXT
);
```

Describe table

```
DESC se
```

Field	Type	Null	Key	Default	Extra
Question_number	int(11)	NO	PRI	NULL	
Question	text	YES		NULL	
OPTION_1	text	YES		NULL	
OPTION_2	text	YES		NULL	
OPTION_3	text	YES		NULL	
OPTION_4	text	YES		NULL	
answer	text	YES		NULL	

Show Table:-

```
Select * from se
```

Question_number	Question	OPTION_1	OPTION_2	OPTION_3	OPTION_4	answer
1	What is the first step in the...	System Design	Coding	System Testing	Preliminary Investigatio...	Preliminary Investigation and A...
2	What does the study of an...	Details of DFD	Feasibility Study	System Analysis	System Planning	System Analysis
3	What does RAD stand for?	Rapid Application D...	Rapid Application D...	Relative Applicati...	None of the above	Rapid Application Development
4	Which of the following prot...	Domain Prototype	Vertical Prototype	Horizontal Prototype	Diagonal Prototype	Diagonal Prototype

Response Table

Create Table:-

```
create Table Response(
    Student_name VARCHAR(100),
    RollNo INT PRIMARY KEY PRIMARY KEY,
    subject_code VARCHAR(100),
    Test_name VARCHAR(100),
    Res_1 TEXT,
    Res_2 TEXT,
    Res_3 TEXT,
    Res_4 TEXT,
    Res_5 TEXT,
    Res_6 TEXT,
    Res_7 TEXT,
    Res_8 TEXT,
    Res_9 TEXT,
    Res_10 TEXT
);
```

Describe table

Field	Type	Null	Key	Default	Extra
Student_name	varchar(100)	YES		NULL	
RollNo	int(11)	NO	PRI	NULL	
subject_code	varchar(100)	YES		NULL	
Test_name	varchar(100)	YES		NULL	
Res_1	text	YES		NULL	
Res_2	text	YES		NULL	
Res_3	text	YES		NULL	
Res_4	text	YES		NULL	
Res_5	text	YES		NULL	
Res_6	text	YES		NULL	
Res_7	text	YES		NULL	
Res_8	text	YES		NULL	
Res_9	text	YES		NULL	
Res_10	text	YES		NULL	

Show Table:-

Table data will not be shown as this table will be during runtime of the software testing

So only Description of the table will be shown

Result Table

Create Table:-

```
create Table Result(
    Student_name Varchar(100),
    rollNo INT PRIMARY KEY,
    SE INT,
    DCCN INT,
    FLAT INT,
    OE INT,
    PE INT,
    DBMS INT,
    final_result DOUBLE,
    percent DOUBLE
);
```

Describe table

```
DESC result
```

Field	Type	Null	Key	Default	Extra
Student_name	varchar(100)	YES		NULL	
rollNo	int(11)	NO	PRI	NULL	
SE	int(11)	YES		NULL	
DCCN	int(11)	YES		NULL	
FLAT	int(11)	YES		NULL	
OE	int(11)	YES		NULL	
PE	int(11)	YES		NULL	
DBMS	int(11)	YES		NULL	
final_result	double	YES		NULL	
percent	double	YES		NULL	

Show Table:-

Table data will not be shown as this table will be during runtime of the software testing

So only Description of the table will be shown

Student table

Create Table:-

```
create Table Student(
    Student_name VARCHAR(100) ,
    RollNo INT PRIMARY KEY,
    Contact LONG
);
```

Describe table

```
DESC student
```

Field	Type	Null	Key	Default	Extra
abc Filter...					
Student_name	varchar(100)	YES		NULL	
RollNo	int(11)	NO	PRI	NULL	
Contact	mediumtext	YES		NULL	

Show Table:-

```
Select * from student
```

Student_name	RollNo	Contact
abc Filter...	abc Filter...	abc Filter...
Atul Aditiya	60003	9006823831
Suraj Kumar Mahato	60004	8595059008
Kumar Satyam	60010	78690578993
Subhojeet Ghosh	60017	6206517869

:OO End Of Examination Table Data Base ✓ :

(4) Planning and development module

Administrator Table

Create Table:-

```
create table administrator(
    ad_name VARCHAR(100),
    Position VARCHAR(100) PRIMARY KEY,
    Contact LONG
);
```

Describe table

Field	Type	Null	Key	Default	Extra
ad_name	varchar(100)	YES		NULL	
Position	varchar(100)	NO	PRI	NULL	
Contact	mediumtext	YES		NULL	

Show Table:-

```
Select * from administrator
```

ad_name	Position	Contact
XYZ	aaaaa	123456788
QWER	assdf	11234566

Budget Table

Create Table:-

```
Create Table Budget(  
    Work_job VARCHAR(100) PRIMARY KEY,  
    Budget LONG,  
    Labours_required INT,  
    LabourCost INT,  
    MaterialCost LONG,  
    TotalCost LONG  
);
```

Describe table

Field	Type	Null	Key	Default	Extra
Work_job	varchar(100)	NO	PRI	NULL	
Budget	mediumtext	YES		NULL	
Labours_required	int(11)	YES		NULL	
LabourCost	int(11)	YES		NULL	
MaterialCost	mediumtext	YES		NULL	
TotalCost	mediumtext	YES		NULL	

Show Table:-

```
Select * from budget
```

Work_job	Budget	Labours_required	LabourCost	MaterialCost	TotalCost
Buliding contruction	30000000	100	10000	20000000	21000000
Painting	1000000	20	1000	50000	70000

Planning_development table

Create Table:-

```
create table Planning_development(
    Department_name VARCHAR(100) PRIMARY KEY,
    Contact LONG,
    Location_add VARCHAR(100)
);
```

Describe table

Field	Type	Null	Key	Default	Extra
abc Filter...	abc Filter...	abc Filter...	abc Filter...	abc Filter...	abc Filter...
Department_name	varchar(100)	NO	PRI	NULL	
Contact	mediumtext	YES		NULL	
Location_add	varchar(100)	YES		NULL	

Show Table:-

```
Select * from planning_development
```

Department_name	Contact	Location_add
abc Filter...	abc Filter...	abc Filter...
Architecture and development Wing	4567809754	Deoghar ,Jharkhand

Staff Table

Create Table:-

```
create table Staff(
    staff_name Varchar(100),
    id INT PRIMARY KEY,
    Contact LONG
);
```

Describe table

Field	Type	Null	Key	Default	Extra
staff_name	varchar(100)	YES		NULL	
id	int(11)	NO	PRI	NULL	
Contact	mediumtext	YES		NULL	

Show Table:-

```
Select * from staff
```

staff_name	id	Contact
abc Filter...	abc Filter...	abc Filter...
xxxxxx	123	23567008777
aaaaa	3456	357679900888

Student Table

Create Table:-

```
create table Student(
    Student_name Varchar(100),
    rollNo INT PRIMARY KEY,
    Contact LONG
);
```

Describe table

Field	Type	Null	Key	Default	Extra
abc Filter...					
Student_name	varchar(100)	YES		NULL	
rollNo	int(11)	NO	PRI	NULL	
Contact	mediumtext	YES		NULL	

Show Table:-

```
Select * from student
```

Student_name	rollNo	Contact
abc Filter...	abc Filter...	abc Filter...
Subhojeet	60017	57898766877
Priya	60033	2479987654

Workers Table

Create Table:-

```
create Table Workers(
    WorkerNo INT PRIMARY KEY,
    DaysWorked INT,
    TotalDays INT,
    Attendence FLOAT
);
```

Describe table

Field	Type	Null	Key	Default	Extra
WorkerNo	int(11)	NO	PRI	NULL	
DaysWorked	int(11)	YES		NULL	
TotalDays	int(11)	YES		NULL	
Attendence	float	YES		NULL	

Show Table:-

```
Select * from Workers
```

WorkerNo	DaysWorked	TotalDays	Attendence
1	20	30	66
2	25	25	100

Suggestion Table

Create Table:-

```
create Table Suggestion(
    User_type Varchar(100),
    UserName VARCHAR(100),
    Problem VARCHAR(100) PRIMARY KEY,
    ideas TEXT
);
```

Describe table

Field ↑	Type	Null	Key	Default	Extra
abc Filter...					
User_type	varchar(100)	YES		NULL	
UserName	varchar(100)	YES		NULL	
Problem	varchar(100)	NO	PRI	NULL	
ideas	text	YES		NULL	

Show Table:-

```
Select * from suggestion
```

User_type ↑	UserName	Problem	ideas
abc Filter...	abc Filter...	abc Filter...	abc Filter...
Student	Subhojeet	lorem Ipsum is simply dum...	orem Ipsum is simply dummy text of ...
Staff	fdssss	orem Ipsum is simply dummy...	orem Ipsum is simply dummy text of ...

The END