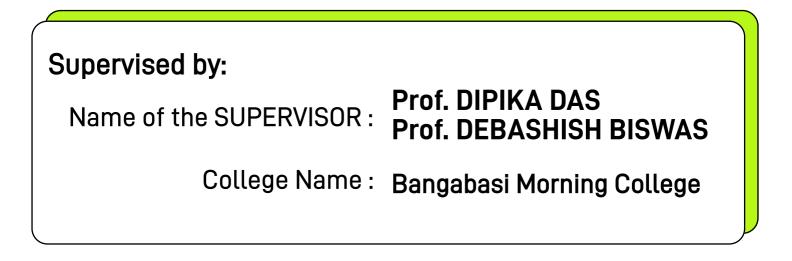


# Title : Database Management System

Submitted for the Degree of B.Com. General in Accounting & Finance under the University of Calcutta

# Submitted by :

Name of the candidate :	Jeetesh Kumar Jha
CU Registration No. :	144-1111-1490-20
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College Name :	Bangabasi Morning College
Year of Submission :	2023



# ACKNOWLEDGEMENT

This is my proud privilege to express my deepest sense of gratitude & Indebtedness to my supervisor , **PROF. DIPIKA DAS**, **PROF. Debashish Biswas**, head of the department of the commerce in words perhaps would fail to express the gratitude I owe to him. It would have been impossible for me to complete the project work without his constant & valuable suggestion at every stage of the project work.

I am also grateful to all other teachers of the department of commerce for their constants support.

I express my gratitude to all my friends for their help to complete the project work.

Signature

Annexure - 1A

### **Supervisor's Certificate**

This is to certify that Jeetesh Kumar Jha a student of B.Com. General in Accounting & Finance of BANGABASI MORNING COLLEGE under the University of Calcutta has worked under my supervision and guidance for his Project Work and prepared a Project Report with the title "DBMS".

which he is submitting, is his/her genuine and original work to the best of my knowledge.

- Name : PROF. DIPIKA DAS & PROF. DEBASHISH BISWAS
- College : Bangabasi Morning College
  - Place : Kolkata

Date :

Signature PROF. DIPIKA DAS

PROF. DEBASHISH BISWAS

Signature

#### Annexure - 1B

### **Student's Declaration**

I hereby declare that the Project Work of **DBMS** submitted by me for the partial fulfilment of the degree of B.Com. General in Accounting & Finance under the University of Calcutta is my original work and has not been submitted earlier to any other University /Institution for the fulfilment of the requirement for any course of study. I also declare that no chapter of this manuscript in whole or in part has been incorporated in this report from any earlier work done by others or by me. However, extracts

of any literature which has been used for this report has been duly acknowledged providing details of such literature in the references

- Name : Jeetesh Kumar Jha
- CU Reg. No. : 144-1111-1490-20
- CU Roll No.: 201144-22-0148

Date :

Signature

# Synopsis

#### Introduction

A Database Management System (DBMS) is a software system that enables users to create, maintain, and manipulate data stored in a database. A database is a collection of data that is organized in a specific way, typically stored on a computer system.

The primary function of a DBMS is to provide a way for users to store and retrieve data efficiently and securely. It does this by managing the storage of the data, controlling access to the data, and ensuring data integrity and consistency.

A DBMS typically includes several components, such as a data dictionary, which stores information about the data in the database, a query language, which allows users to interact with the database, and tools for managing and administering the database.

#### **Advantages of DBMS**

- 1. Data Consistency: DBMS ensures that data is consistent across the database, thus reducing the possibility of data inconsistencies and errors.
- 2. Data Security: DBMS provides various security features, such as access controls, encryption, and backup and recovery mechanisms, to ensure data security.
- 3. Improved Data Sharing: DBMS allows multiple users to access and manipulate data simultaneously, improving data sharing and collaboration.
- 4. Improved Data Accessibility: DBMS provides powerful tools for searching and retrieving data, making it easier for users to access the data they need.
- 5. Improved Data Integration: DBMS allows data from different sources to be integrated and stored in a single database, making it easier to manage and analyze.

# Synopsis

#### **Disadvantage of DBMS**

- 1. Complexity: DBMS can be complex to set up and maintain, requiring specialized skills and expertise.
- 2. Cost: DBMS can be expensive, especially for larger systems or those that require specialized features or capabilities.
- 3. Performance: DBMS can sometimes be slower than alternative approaches, such as flat files or spreadsheets, especially when dealing with large amounts of data.
- Dependence: DBMS can create a dependence on a single vendor or technology, making it difficult to switch to a different system or technology in the future.
- 5. Potential for Data Loss: DBMS is vulnerable to data loss due to hardware failures, software bugs, or other technical issues, requiring robust backup and recovery mechanisms to be in place.

#### **Features of Database Management System**

- Data Definition Language (DDL): This feature allows users to define and modify the structure of the database, including creating, modifying, and deleting tables, views, and other database objects.
- 2. Data Manipulation Language (DML): This feature allows users to manipulate the data stored in the database, including inserting, updating, and deleting data.
- 3. Query Language: A query language is a tool that allows users to retrieve specific data from the database by specifying certain conditions or criteria.
- 4. Data Integrity: DBMS enforces data integrity rules, such as referential integrity, to ensure the consistency and accuracy of the data stored in the database.
- 5. Transaction Management: DBMS provides transaction management features, which enable users to perform a series of operations as a single unit of work, ensuring that all operations are completed or none at all.

#### Create Ms Access Database Software to Prepare Salary in Your Company:

I'll give you the brief instruction to create a Payroll system using MS access for generate monthly salaries and print salary slips easily with this. You can print pay sheets for individual employers and salary details also. No need to install special software, no need special Skill but you need Ms Access in your computer. This way you can keep each month salary details records under database and can edit or review later.

#### Instructions

- Step 1: Create Main Basic Table
- Step 2: Create Query for Basic Main Table
- Step 3: Create Pay Sheet Details
- Step 4: Create a Salary Slip
- Step 5: Create a Form to Enter Data
- Step 6: Enter Staff Details

#### **Step 1: Create Main Basic Table**

- Open Ms Access.
- Go to main menu & create table as mention with picture.
- Add following details or your details what you pay to your staff monthly. (Image in Fig.1)

Field Nar	ne	Data Type		
Month :	Ionth :			
EPF no :	PF no :			
Name:		Text		
Position:		Text		
Address:		Text		
Basic salary:		Currency		
Travelling Allowan	ice:	Currency		
Special Allowance		Currency		
Salary Advance		Currency		
Staff Loan		Currency		
No of OT hours:		Number		
No of Working Day		Number		
- · ·	5.	Yes/No		
Working or Not :		Yes/No	Field Propert	
General Lookup				
Field Size	255			
Format				
Input Mask				
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Input Mask Caption Default Value				
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## **EMPLOYEE SALARY SHEET**

#### **Step 2:** Create Query for Basic Main Table

📑 basic Qu	ery					
	Special Salary A Staff Lo No of C	: :: :lary: ng Allowance: Allowance: :dvance				Fig.2
Field: Table: Sort: Show: Criteria: or:	[Month :] basic	EPF no :] basic	[Name:] basic	[Position:] basic	[Address:] basic	

#### **Step 3: Create Pay Sheet Details**

- Create a report base on monthly transaction for pay sheet.
- insert formula for auto calculate OT / No pay/ and net salary

1	
	Fage Header
	Your company
	PAY SHEET SUMMERY FOR THE MONTH OF Month :
	Deduccion
	Name EPF no Position Basic salary Tr. Allowance Spillowance Over Time Sa Advance. Staff Loan
	Name: EPF no : Position: Basic salary:  =[Text80]/30 =[Text82]/30 =[Basic sala Salary Advan Staff Loan
	No of OT hours
	TOTALS:
	TUTACS

# **EMPLOYEE SALARY SHEET**

#### Step 4: Create a Salary Slip

- Create a salary Slip how you want to give to your staff as below.
- each and every details what you want to show in your staff salary slip..

Name:       EPF no :         EPF no :       Address:         Address:       Address:         Position:       Position:         Basic salary:       Basic salary:         Basic salary:       Easic salary:         Travelling Allowance:       =[Text80]/30*[No of Working]         Special Allowance:       =[Text82]/30*[No of Working]         Over Time       =[Basic salary:]/30/8*1.5*[Te]         Basic y Advance       Salary Advance         Staff Loan       EPF : \$9%         Total       =[Basic salary:]/100*8]         EPF : 10%       =[Basic salary:]/100*10]         ETF : \$10%       =[Basic salary:]/100*3]	Month :	
EPF no :       Address:         Address:       Address:         Position:       Position:         Basic salary:       Basic salary:         Travelling Allowance       =[Text80]/30*[No of Working]         Special Allowance:       =[Text82]/30*[No of Working]         Over Time       =[Text82]/30*[No of Working]         Deduction:       Salary Advance         Salary Advance       Staff Loan         EPF 10%       =[Basic salary:]/100*8         Total       =[Basic salary:]/100*10         EFF 19%       =[Basic salary:]/100*10         ETF 3%       =[Basic salary:]/100*3		
Address:       Position:         Position:       Position:         Basic salary:       Basic salary:         Travelling Allowance       =[Text80]/30*[No of Working]         Special Allowance       =[Text82]/30*[No of Working]         Over: Time       =[Text82]/30*[No of Working]         Deduction:       =[Basic salary:]/30/8*1.5*[Te]         Salary: Advance       Salary Advance         Staff Loan       Staff Loan         EPF 10%       =[Basic salary:]/100*8         Total       =[Basic salary:]/100*10         EPF 10%       =[Basic salary:]/100*3         No. of Wo:Days       No. of	ame: Name:	
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Position:       Position:         Basic salary:       Basic salary:         Travelling Allowance:       =[Text80]/30*[No of Working]         Special Allowance:       =[Text82]/30*[No of Working]         Over Time       =[Basic salary:]/30/8*1.5*[Te]         Deduction:       =[Basic salary:]/30/8*1.5*[Te]         Salary Advance       Salary Advance         Staff Loan       Staff Loan         EPF 10%       =[Basic salary:]/100*8         Total       =[Basic salary:]/100*10         EPF 10%       =[Basic salary:]/100*3         No.of       No.of	Addross:	
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Travelling Allowance       =[Text80]/30*[No of Working]         Special Allowance:       =[Text82]/30*[No of Working]         Over Time       =[Text82]/30*[No of Working]         Deduction:       =[Basic salary:]/30/8*1.5*[Te:]         Salary Advance       Salary Advance         Salary Advance       Staff Loan         EPF: 8%       =[Basic salary:]/100*8         Total       =[Basic salary:]/100*8         EPF: 10%       =[Basic salary:]/100*10         ETF: 3%       =[Basic salary:]/100*3         No. of Wo.Days:       No. of		
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Travelling Allowance       =[Text80]/30*[No of Working]         Special Allowance:       =[Text82]/30*[No of Working]         Over Time       =[Text82]/30*[No of Working]         Deduction:       =[Basic salary:]/30/8*1.5*[Te:]         Salary Advance       Salary Advance         Salary Advance       Staff Loan         EPF: 8%       =[Basic salary:]/100*8         Total       =[Basic salary:]/100*8         EPF: 10%       =[Basic salary:]/100*10         ETF: 3%       =[Basic salary:]/100*3         No. of Wo.Days:       No. of	sic salary	Basic salary:
Special Allowance       =[Text82]/30*[No of Working]         Over: Time       =[Basic salary:]/30/8*1.5*[Te:]         Deduction:       Salary Advance         Salary Advance       Salary Advance         Staff Loan       Staff Loan         EPF: 10%       =[Basic salary:]/100*8         EPF: 10%       =[Basic salary:]/100*10         ETF: 2%       =[Basic salary:]/100*3         No.off       No.off		
Over Time       =[Basic salary:]/30/8*1.5*[Te]         Deduction       Salary Advance         Salary Advance       Salary Advance         Staff Loan       Staff Loan         EPF 8%       =[Basic salary:]/100*8         Total       =[Basic salary:]/100*10         EPF 10%       =[Basic salary:]/100*3         No of Wo.Days:       No of	avelling Allowance	=[Text80]/30*[No of Working
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Deduction:         Salary Advance         Staff Loan         Staff Loan         EPF: 8%         [Basic salary:]/100*8         Total         EPF: 10%         EFF: 10%         ETF: 2%         [Basic salary:]/100*3         No.of	ver Time	-[Pasic calapy]/20/0*1 5*[To]
Salary Advance       Salary Advance         Staff Loan       Staff Loan         EPF: 8%       =[Basic salary:]/100*8         Total       =[Basic salary:]/100*10         EPF: 10%       =[Basic salary:]/100*10         ETF: 9%       =[Basic salary:]/100*3         No: of Wo:Days:       No. of		
Staff Loan         EPF: 5%         Fotal         EPF: 10%	eduction:	
Staff Loan         EPF: 5%         Fotal         EPF: 10%	lary Advance	Salary Advance
EPF: 8% [ Iotal EPF: 10% [ EFF:		
Total         =[[Basic salary:]+[T]           EFF 10%         =[Basic salary:]/100*10           ETF: 3%         =[Basic salary:]/100*3           No: of Wo;Days:         No: of	aff Loan:	Staff Loan
Total EPF: 10% ETF: 3% No.of No.of No.of	PF 8%	=[Basic salary:]/100*8
EPF 19% EFF 19% ETF 3% ETF 3% No of Wo Days No of		
ETF 3% =[Basic salary:]/100*3	otal	=([Basic salary:]+[Ti
ETF 3% =[Basic salary:]/100*3		
No: of Wo,Days:	PF 10%	=[Basic salary:]/100*10
No: of Wo,Days:	CF:3%	=[Basic salary:]/100*3
	of Wo Days No of	
No of OT hours 11 No of	of OT hours No of	
		••••••

#### **Step 5:** Create a Form to Enter Data

- Now create a form to enter data to your program.
- base on your table crate a form to enter data very easily.

Enter Basic 🗢	The American Ame American American Am American American A
III · · · · · · · · · · · · · · · · · ·	Tour company - Enter basic Details
Form Header     Your Company - Enter Basic Details     Octail	Month:         Name:           EPF no:         Address:           Position:
Month :         Name:           EPF no :         Address:           Position:         Position:	Salary Advance: No of Working Days : Special Allowance: Salary Advance: Salary Advance: Staff Control Staff Contro
Basic salary:         No: of Of Thours:         Iours:           Travelling: Allowance:         Ing Allowance:         No: of Working Days:         Days:           Special Allowance:         clai Allowance:         clai Allowance:         Contract of the second	Working or Resign :
Salary Advance Salary Advance	(
Working or Resign ( 1	Ŭ
ff resign tick this	

# **EMPLOYEE SALARY SHEET**

#### **Step 6: Enter Staff Details**

- Now you are already finish your program.
- enter staff details.

PAY SHEET FOR THE MONTH C	DF	
Name:		
EPF no :		
Address::		
Position::		
Basic salary:		
Travelling Allowance:		
Special Allowance::		
Over Time		
Deduction:		Fig.7
Salary Advance:		
Staff Loan:		
EPF s%		
Total		
EPF 10%		
ETF 3%		
No of Wo.Days		
No of OT hours		
	Signature Date	J

		STA	FF SALARIE	S FOR THE	MONTH	OF						
EPF NO Name	Basic salary	Рауее	Staff Loan	Advance	No Рау	Telephone	Insurance	Staff EPF	NET PAID	Comp EPF	ETF	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
								0.00		0.00	0.00	
Thursday, November 10, 2016										Page	1 of 1	

Fig.8

#### **Assignment:-**

In this assignment, you are required to create a database – *dbStudentCourse.* In this database, you should do the following work:

- Create three tables: tblStudent, tblCourse, and tblStudentCourse,
- Build the relationship between tblStudent and tblCourse,
- Create a query, and Generate a report based on the query results.

#### 🎨 Database Design

- This database contains three tables: tblStudent, tblCourse, and tblStudentCourse. tblStudent(StudentID, Sname, GPA)
- tblCourse(CourseID, CourseTitle, CreditHour, Description)
- tblStudentCourse(StudentID, CourseID, DateTaken, Status)

			Table Te		PIKA DAS : Database (Access 2007) - Microsoft Access	- 0	×
Home Create	Externa	Data Database To	ools Desig	n			. 6
View Views	Validatio Rules Tools	delete Rows	Property Index Sheet Show/Hide	res			
All Tables	·	tblStudent					>
tblStudent	*	Field N	lame	Data Type	Description		
tbiStudent : Table		StudentID		Number	Student ID		
		Sname		Text	Student Full Name		
		GPA		Number	Grade Point Average		
		U. C.		TURNET	State Fourth Frage		
		_					
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		Field Size	Long Intege	r		1	
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		Caption Default Value	0			The field description is optional. It help:	s you
		Validation Rule	0			describe the field and is also displayed in	in the
		Validation Text				status bar when you select this field o	na
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Design view. F6 = Switch pane	ts. F1 = H	elp.				0	(1) (L) (4)

Fig.1

# **Using MS Access to Create a Database**

- Open Microsoft Access 2013, and click "Blank Database". You need to name your database as "dbStudent.accdb" and save it into a location that you will remember. Click "Create".
- In the database, you will see "Table1", which is the default name created by Access. The datasheet view of "Table1" is on the right hand side of the database. Right click "Table1" on the top of the datasheet view and choose "Design View". In the pop up window, rename the table as "tblStudent".
- Input the field name and choose the data type as shown in Figure 1 above.
- Set the first field "StudentID" as the "primary key" by right clicking the very beginning of the first row. Now, the design of the table "tblStudent" is completed.
- To create other two tables "tblCourse" and "tblStudentCourse", go to the top menu and click
- "Create" and then "Table", you will see a new table named "Table1". Repeat the procedures of b) and input the field names and data types as indicated in {Figure 2 and 3}.
- Save your work by close all Table item windows
- Input the data as indicated in {Figure 4a, 4b, and 4c}.

A 10 - (1 - ) =	Table	e Tools DIPI	KA DAS : Database (Access 2007) - Microsoft Access	- a x	
Home Create Extern	al Data Database Tools De	Kign		10	þ
View Dipboard 0		王 王 王 ] 고 · · · · · · · · · · · · · · · · · · ·	Save Spetting 21 Pladvanced - Go to-		
All Tables 💌 «	tblCourse			×	ł
tblStudent 🏦	Field Name	Data Type	Description		4
tblCourse  tblCourse	V CourseTitle CreditHour Description	Number Text Number Text	ID Title CreditHours		
			Field Properties		•
	General Lookup				
	Field Size Long Into Format Decimal Places Auto Input Mask Caption Default Value Validation Rule Validation Rule Validation Text Required No	eger Duplicates)	A field name can be up including spaces. Pre nam	ss F1 for help on field	
			An and a second s	and in an in	ş

# **Using MS Access to Create a Database**

₩ 17 · (21 · ) =		Table Tools	DIPIKA DAS : Database (Access 2007) - Microsoft Access		- 0
Home Create Extern	al Data Database Tool	s Design			
able Table SharePoint Table Templates + Lists + Design Tables	Form items	le PivotChart Form Form Rep More Forms = Design Form	Blank Report		
Tables 🔍 🤕	tbiStudentCourse				
IStudent &	Field Nan	ne Data Type	Descrit	otion	
IbiStudent : Table	StudentID	Number	Student ID		
	CourseID	Number	Course ID		
Course 🖈	DataTaken	Date/Time	Date Course Taken		
tblCourse : Table	Status	Text	Status		
StudentCourse 🌼	Status	Text	Jidius		
			Field Properties		
	General Lookup				
	Field Size	255		•	
	Format				
	Input Mask				
	Caption				
	Default Value				The field description is optional. It helps yo
	Validation Rule				describe the field and is also displayed in th
	Validation Text	1000			status bar when you select this field on a
	Required	No			form. Press FT for help on descriptions.
	Allow Zero Length	Yes		4	
	Indexed	No			
	Unicode Compression	Yes			
	IME Mode	Ne Control			
	IME Sentence Mode	None			
	Smart Tags			~	

7

Fig.3

	al Data (	Database To	ols Datash	eet								
A Cot La Copy Paste J Format Painter ews Clipboard 5	Calibri B Z U		·-		121	E AF Ret	resh 	Σ Totals Spelling More τ do	24 34 20 Filt	Advanced -	See Replace ⇒ Go To - ↓ Select - Find	
bles 👻 «	TT thistud							71.				
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tbiStudent	HE.	C				0						
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	æ		Sayan Das			3						
	84		Rohan Mond	al		4						
	E		Anjali Das			4						
	E.		5 Sourav Saha 7 Ishan Ghosh			3						
	*		Isnan Ghosh			2						
	Record: H				110-							 

## **Using MS Access to Create a Database**

Fables 👻 🤄	c Dicours	se l			
1 tbiCourse			CreditHour + Description +	dd New Field	
i tbiStudent	Œ	0	0		
tblStudentCourse	(H)	1 Havesting	3 Forest Operati		
tbistudentcourse	(E)	2 Computer App	4 Concept		
	æ	3 Biometrics	5 DNA		
	(fi)	4 Finger Printing	3 Forensics		
	*				
	1.1				

Fig.4b

blCourse	121	StudentID +	CourseID +	DataTaken •	Status	<ul> <li>Add New Field</li> </ul>
		0				
tblStudent		1	1	1/9/2013	÷	
tbl5tudentCourse		1	2			
		1	3	8/14/2001	N	
		2	1			
		2	3			
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	Re	cord: 14 4 9 of 9	► н ні №	Me Filter Search		
latus						

- Build relationship for Student and course database
- Click Database Tools-> Relationships... from the Tool menu, you will see a dialogue box.
- Select all the tables and hit the button "Add". Simply drag CourseID from

	😤 Relationships	×
tblCourse tblStudent tblStudentCourse	VibiCourse         VibiStudent           V         CourselD         VibiStudent           CourselD         VibiStudent         VibiStudent           Creatitiour         VibiStudent         Sname           Description         Status         GPA	Ē
	4 m	
Ready		Caps Lock

Fig.5

- tblCourse to tblStudentCourse and StudentID from tblStudent to
- tblStudentCourse. The relationships among the tables are built (Figure 5)

TT1	a 🗇 Query1								
tblCourse	6	lCourse	16,151	udentCourse	tbiStudent				
tbiStudent tbiStudentCourse				*					
		CourseTitle CreditHour Description		CourseID DataTaken Status	Sname GPA				
	•	e							
	Field Table	StudentID IbiStudentCourse	Sname tblStudent	GPA 😪 tbi5tudent	CourseTitle tbiCourse				
	Field			S#A tblStudent			D		

#### 📕 Query Manually

- Click "Create" menu, you will see several options to create a query. We will use "Query design". When the "Show Table" box is popped up, add all the tables.
- Drag the data fields you need from tables to the query layout area where the tables are shown. Click "Run", you will get a query table. In your assignment, you list StudentID, SName, GPA, and CourseTitle; and name your query as qryStudentCourse.

#### Create Reports

- Click "Create" on the menu and then "Report Wizards"
- Select the query you just generated and select all the fields.
- Follow the instructions to create your own report based on the query you just created: rptStudentCourse.

## Bibliography

Here are some of the resources which helps me to develop this project:-

Books

Websites

#### Peoples

• DBMS

- Google
- Yahoo Search
- Prof. Debashish Biswas
- Prof. Dipika Das
- My Firends
- My Family

