GLD PUBLIC SCHOOL KHAIRTAL

Affiliated to CBSE Delhi, Affiliation no. 3330518

A

PROJECT

ON

" Sports Equipment Inventory Management System"

SESSION – 2025-26

Submitted to :-

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Class - 10th

Roll no. -

Subject – Information Technology

Session-2025-26

Certificate

This is to certify that **Aarav Banjare** of Class 10th GLD PUBLIC SCHOOL KHAIRTAL, has successfully completed the project titled **" Sport Equipment Inventory Management System "** for the Information Technology subject (Code 402) in the academic year 2025-26. This project has completed under the guidance of Mr Umesh Banjare sir and has met the required guidelines set by the Central Board of Secondary Education (CBSE). The project demonstrates the student's understanding, research skills, and dedication to the topic of **Sport Equipment Inventory Management System** and their applications.

Signature of Teacher

(Mr. UMESH BANJARE)

Date

Acknowledgment

I would like to express my special thanks of gratitude to my teacher **Mr. Umesh Banjare sir** who gave me the golden opportunity to do this wonderful project on the topic **Sport Equipment Inventory Management System**, which also helped me in doing a lot of Research and I came to know about so many new things I am really thankful to them.

Secondly, I would also like to thank my parents and friends who helped me a lot in finalizing this project within the limited time frame.

Last but not least, I would like to thank all those who had helped (directly or indirectly) towards the completion of this project.

Aarav Banjare

Class - 10th

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1. Introduction Sport Equipment Inventory Management System

A Sport Equipment Inventory Management System helps schools, colleges and sports clubs keep track of all their sports items in an organised way. Managing equipment manually often leads to problems like missing items, inaccurate records and difficulty in checking availability. This system solves those issues by storing all information in one place, making record-keeping easier and faster.

The system maintains details such as equipment name, category, quantity, purchase date, condition and location. When items are issued to students or players, the system updates the record so the staff always know what is available and what is in use. It also helps in tracking damaged or out-dated equipment, which supports timely repair and replacement planning.

With this system, maintaining stock becomes more accurate. It reduces paperwork, saves time and prevents confusion. Staff can quickly check which items need to be purchased and prepare reports whenever required. Overall, the Sport Equipment Inventory Management System improves efficiency, ensures transparency and supports smooth functioning of sports activities. This organised approach helps institutions manage resources properly and provide better facilities to students and players.

2. Objective of the Project

The main objective of the Sport Equipment Inventory Management System is to create an organised and reliable method for managing all sports-related items within an institution. One important goal is to reduce the problems that come with manual record keeping, such as missing entries, misplacement of equipment and difficulty in tracking usage. By storing all information digitally, the system ensures accuracy and easy access to records whenever needed.

Another objective is to help staff maintain proper stock levels. The system keeps track of quantities, issued items and returned items so the sports department can quickly identify shortages and plan purchases on time. It also aims to monitor the condition of equipment, making it easier to schedule repairs or replacements before they affect sports activities.

A further goal is to save time and effort. Instead of searching through registers or files, staff can get information instantly with just a few clicks. The system also supports quick report generation, helping teachers and administrators make better decisions about resource management.

Overall, the objective of this project is to streamline the entire process of equipment handling, improve efficiency and ensure smooth functioning of sports facilities for students and players.

3. Hardware and Software Requirements

A. Hardware Requirements:

- Processor: Pentium® G2030 @ 3.70 GHz
- Processor Speed: 533 MHz
- RAM: 2 GB or more
- Hard Disk: 2.00 GB
- RAM (minimum): 256 Mbytes (512 MB recommended)

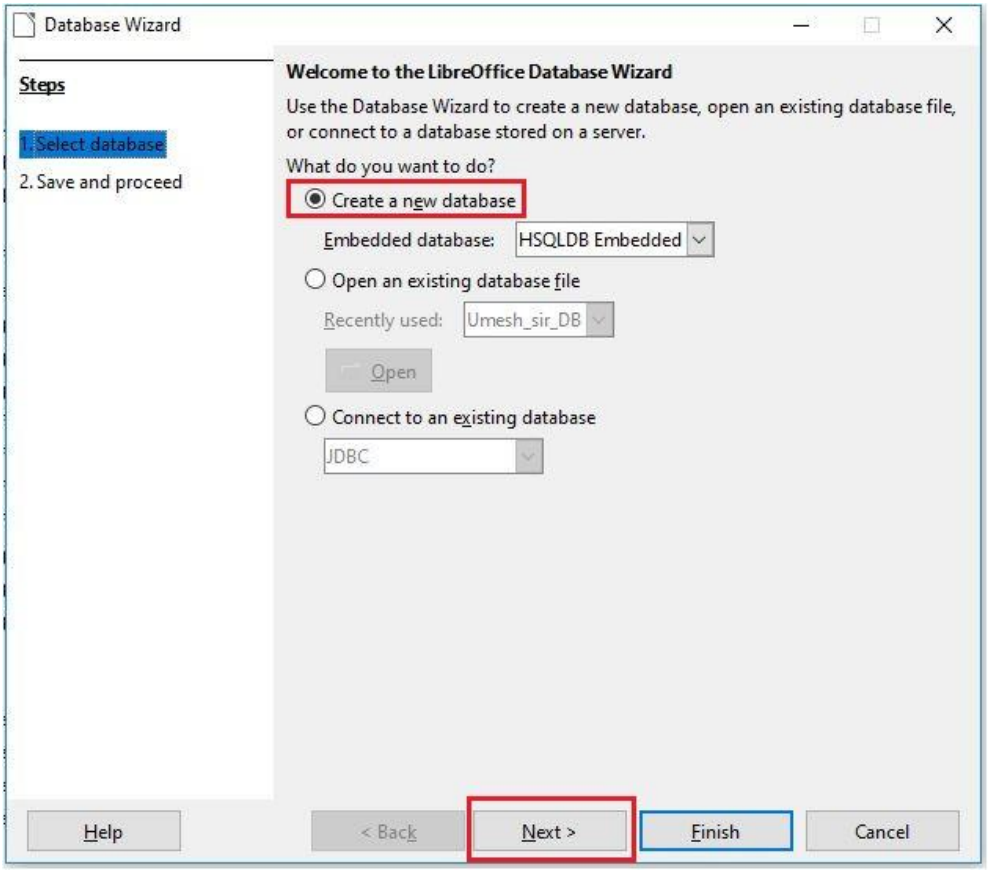
B. Software Requirements:

- At least 650 MB available disk space for a default install (including a JRE) via download. After installation and deletion of temporary files.
- **Operating System**: Microsoft Windows (Windows XP, Windows 2003, Windows Vista, Windows 7, Windows 8)
- Apache OpenOffice requires approximately 440 Mbytes disk space
- **LibreOffice Base Requirements**: Java Runtime Environment (JRE) for full database functionality
- **Approximate Program Size**: LibreOffice uses around 440 MB disk space after installation

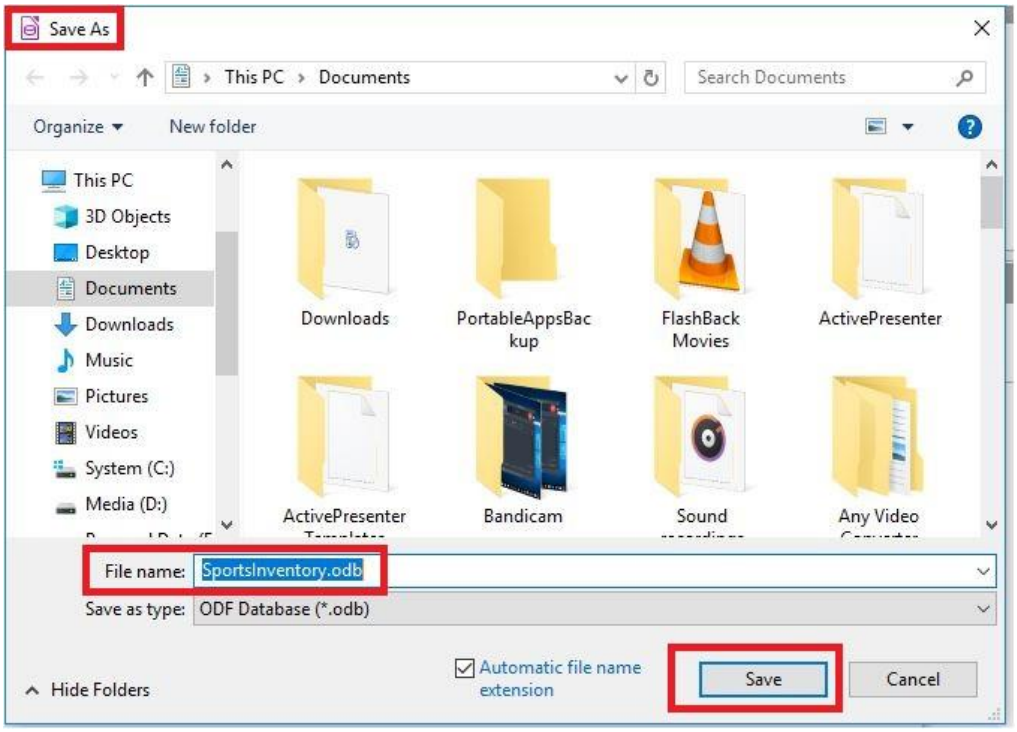
4. Steps in Creating the Project

i. Creating a Database

1. Open LibreOffice Base.
2. Select “Create a new database”.



3. Save the file as **SportsInventory.odb**.



4. Enable default HSQLDB database engine.

ii. Creating Tables

1. Equipment Table

Step 1. Open Your Database File

- Open LibreOffice Base.
- Load your database (example: *SportsInventory.odb*).

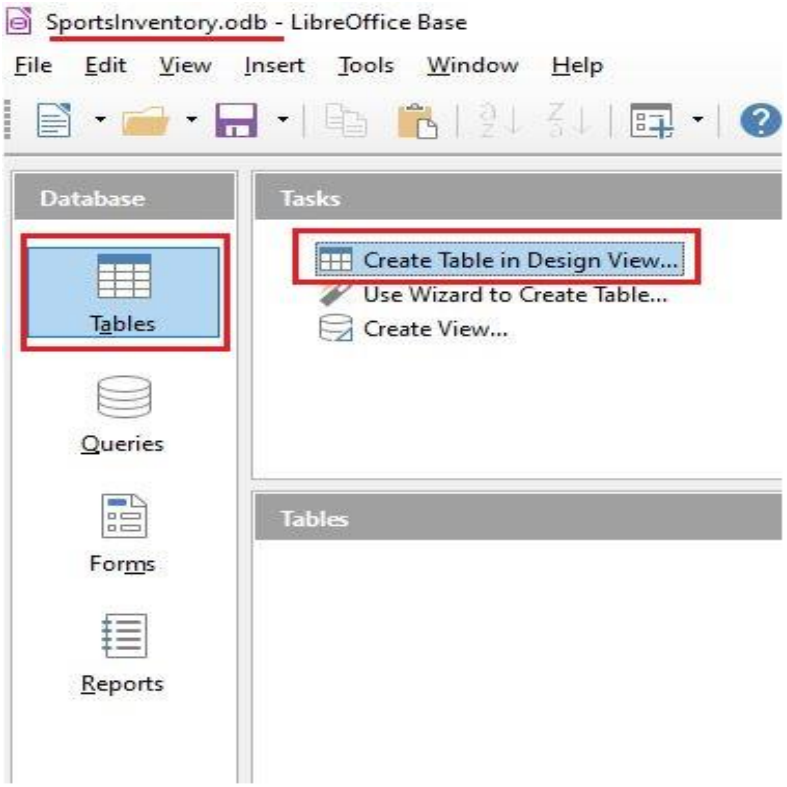
Step 2. Select the "Tables" Section

- On the left sidebar, click **Tables**.
- You will see three options:
  - Create Table in Design View
  - Use Wizard to Create Table
  - Create View

Step 3. Choose "Create Table in Design View"

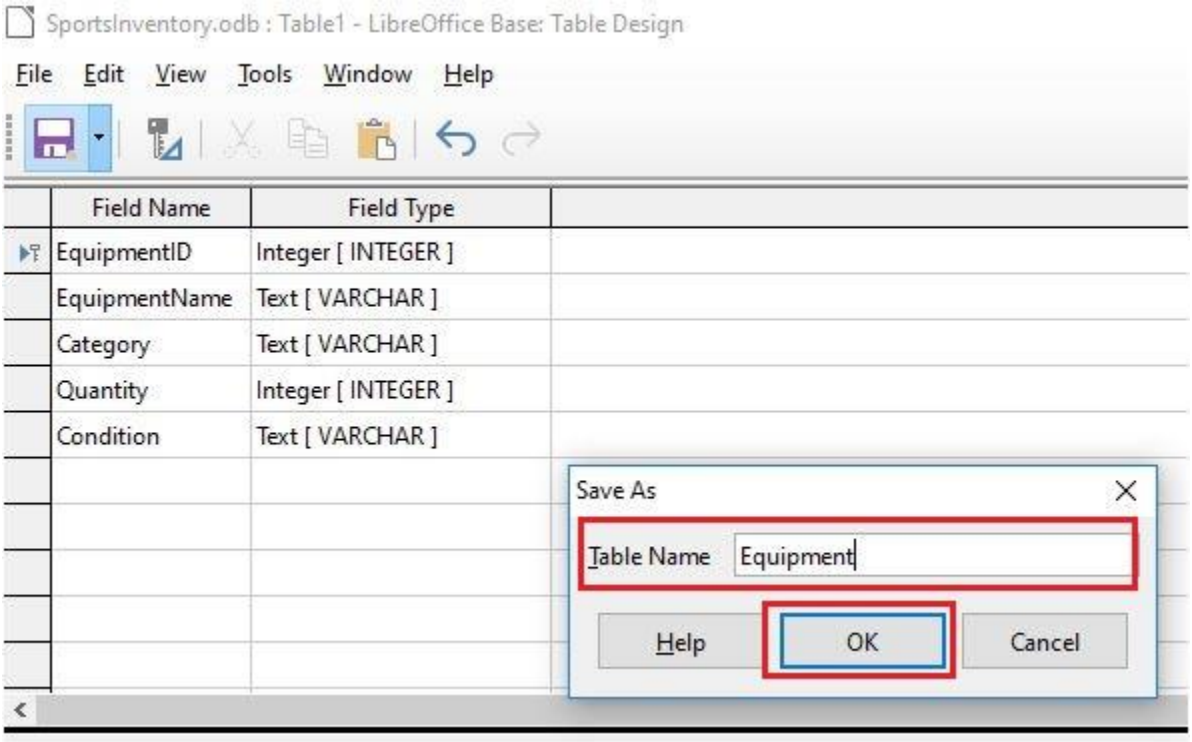
This option gives full control.

- Click **Create Table in Design View**.

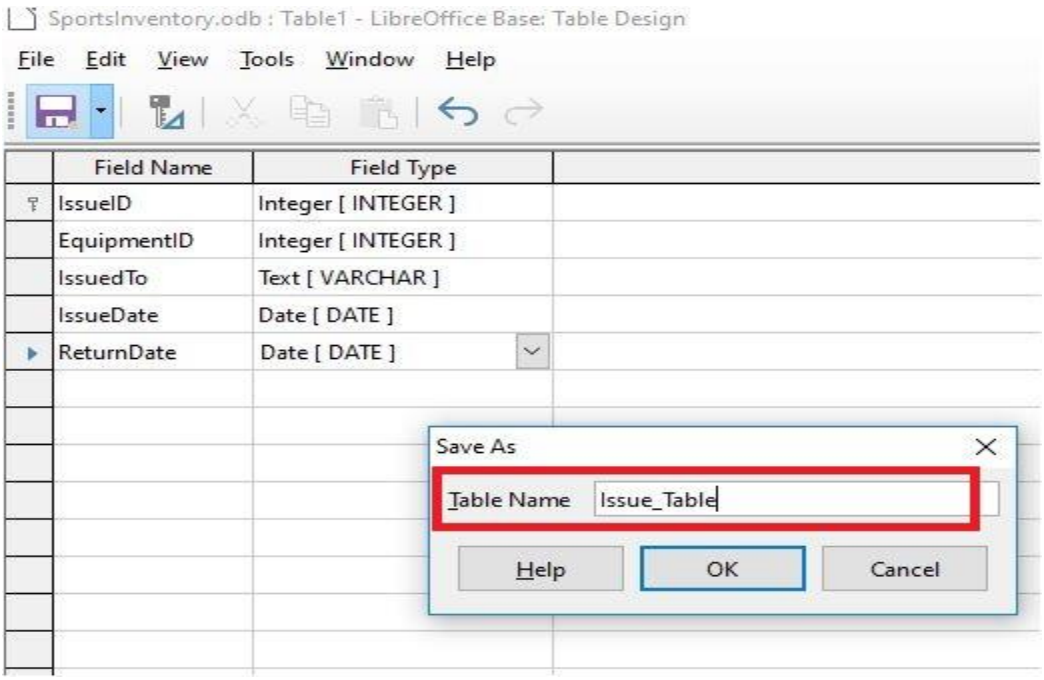


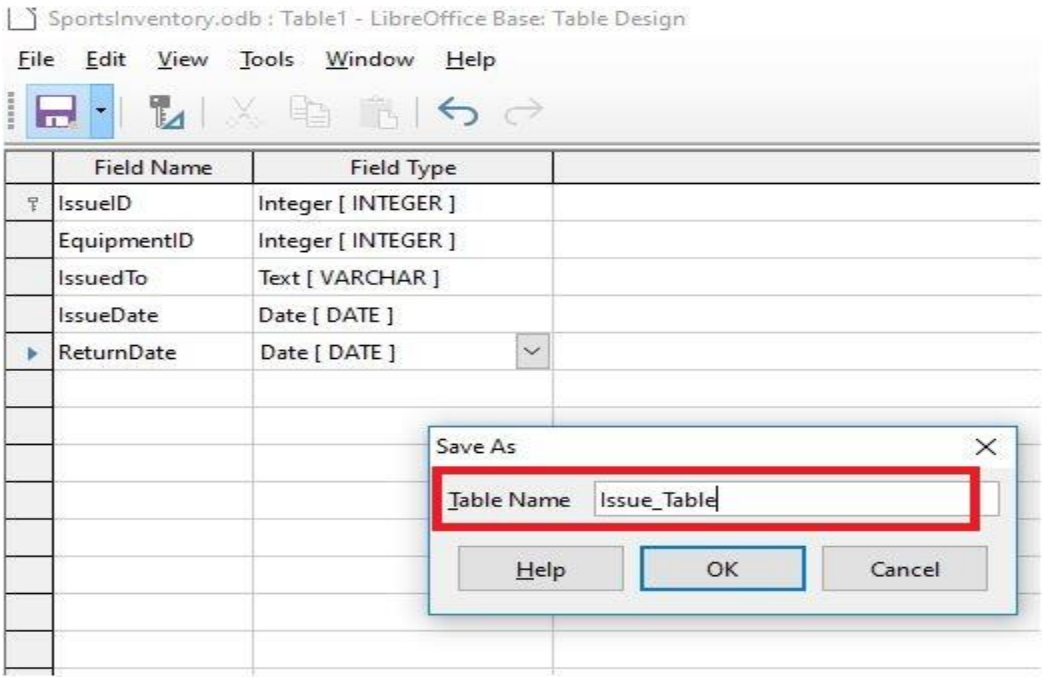
` 1

Step 4. Add Fields to the Table and saving table



2.Issue Table

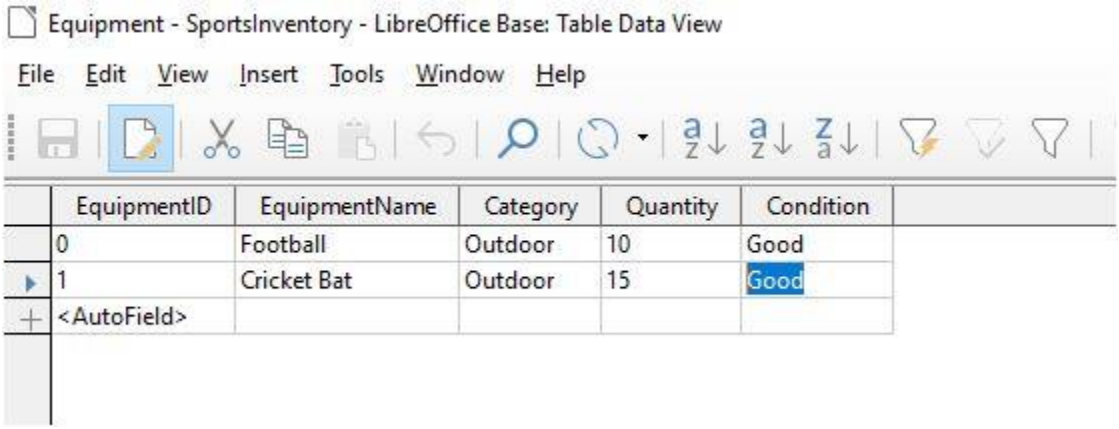



SportsInventory.odb : Table1 - LibreOffice Base: Table Design
File Edit View Tools Window Help
Field Name
Field Type
IssueID
Integer [INTEGER]
EquipmentID
Integer [INTEGER]
IssuedTo
Text [VARCHAR]
IssueDate
Date [DATE]
ReturnDate
Date [DATE]
Save As
Table Name
Issue_Table
Help
OK
Cancel

iii. Inserting Data in Tables

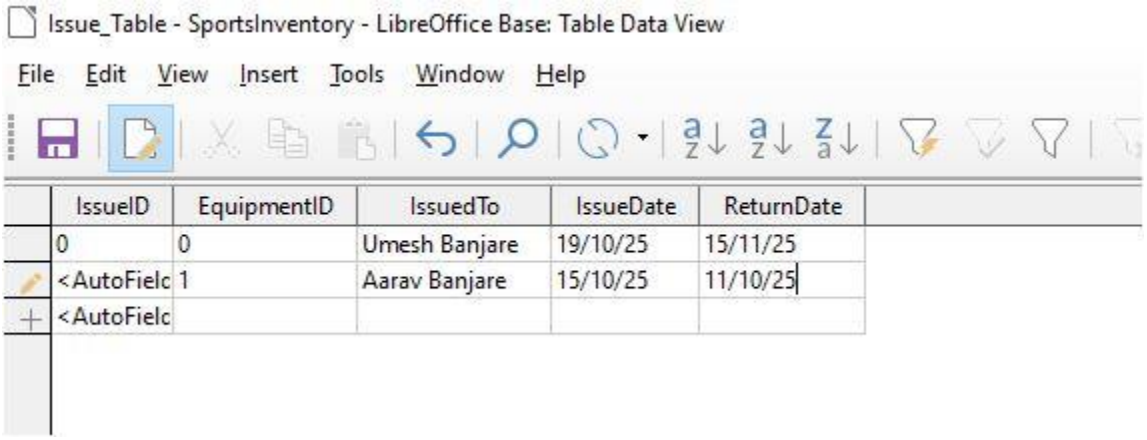
You can insert data using “Table Data View”:

Equipment Table -



EquipmentID	EquipmentName	Category	Quantity	Condition
0	Football	Outdoor	10	Good
1	Cricket Bat	Outdoor	15	Good
<AutoField>				

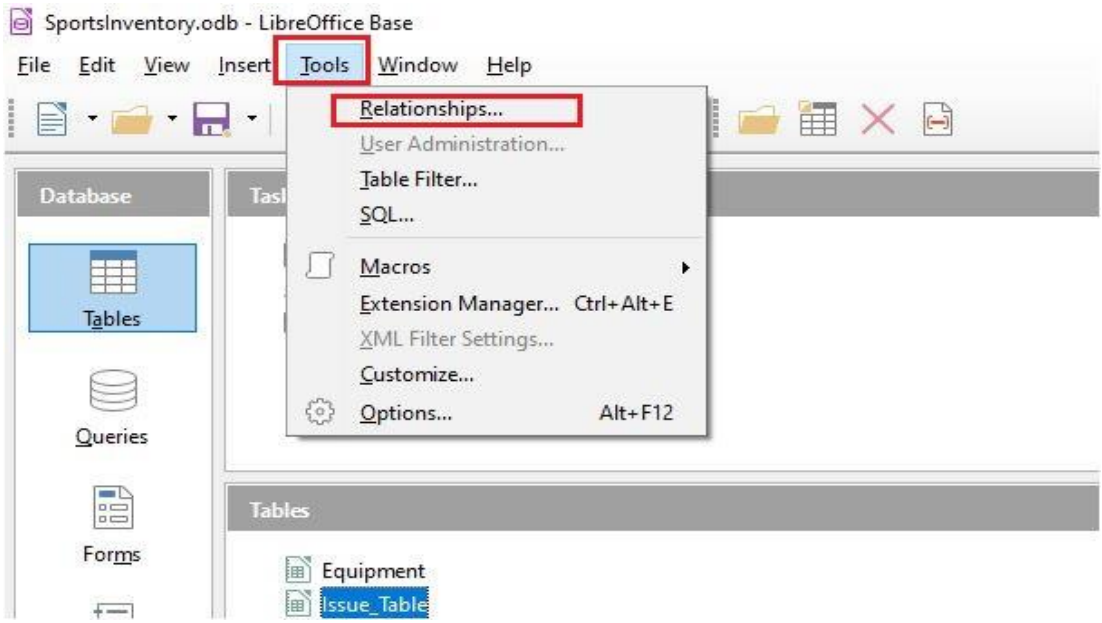
Issue Table-Entering data –



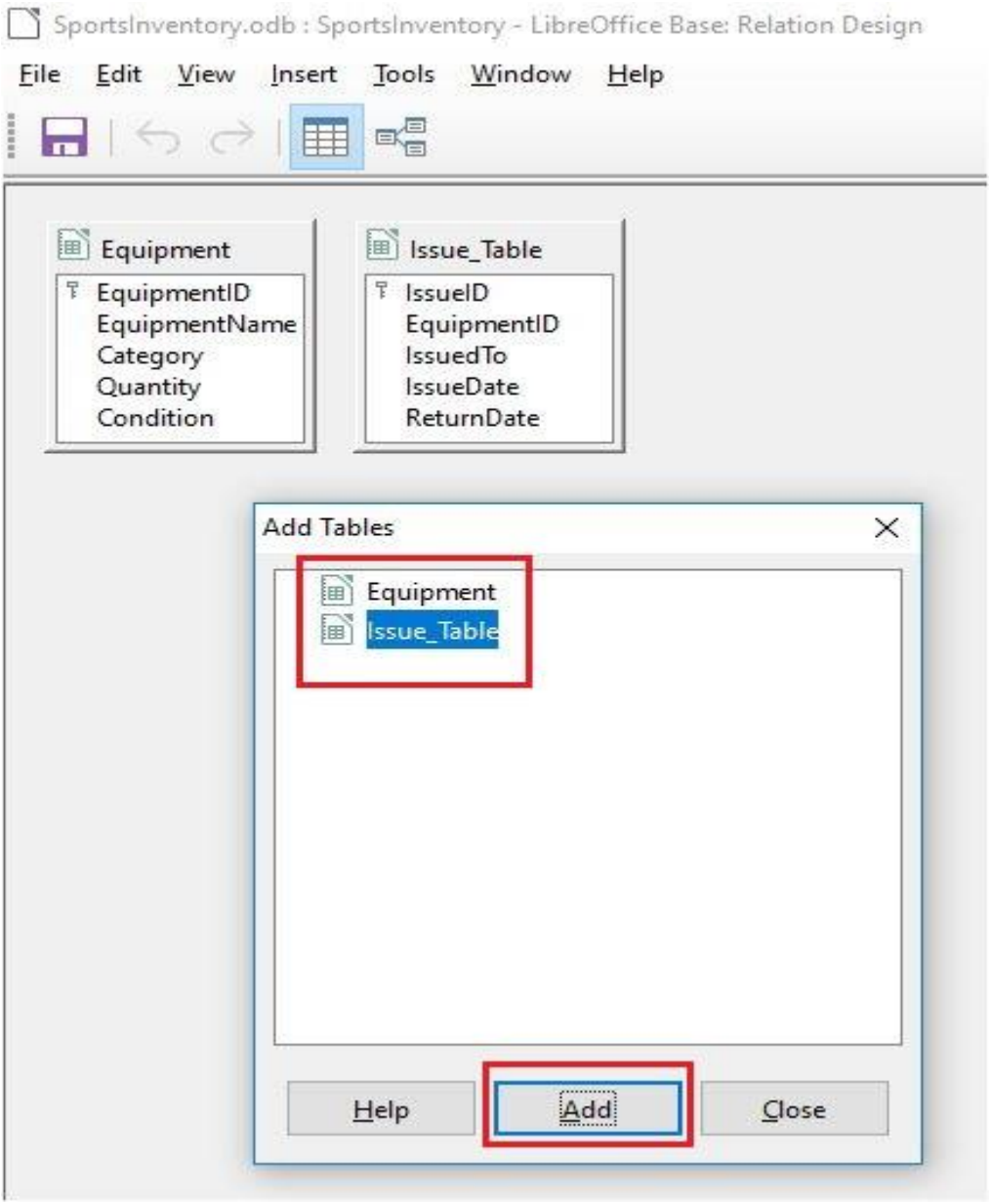
IssueID	EquipmentID	IssuedTo	IssueDate	ReturnDate
0	0	Umesh Banjare	19/10/25	15/11/25
<AutoFielc	1	Aarav Banjare	15/10/25	11/10/25
<AutoFielc				

iv. Creating Relationship Between Tables

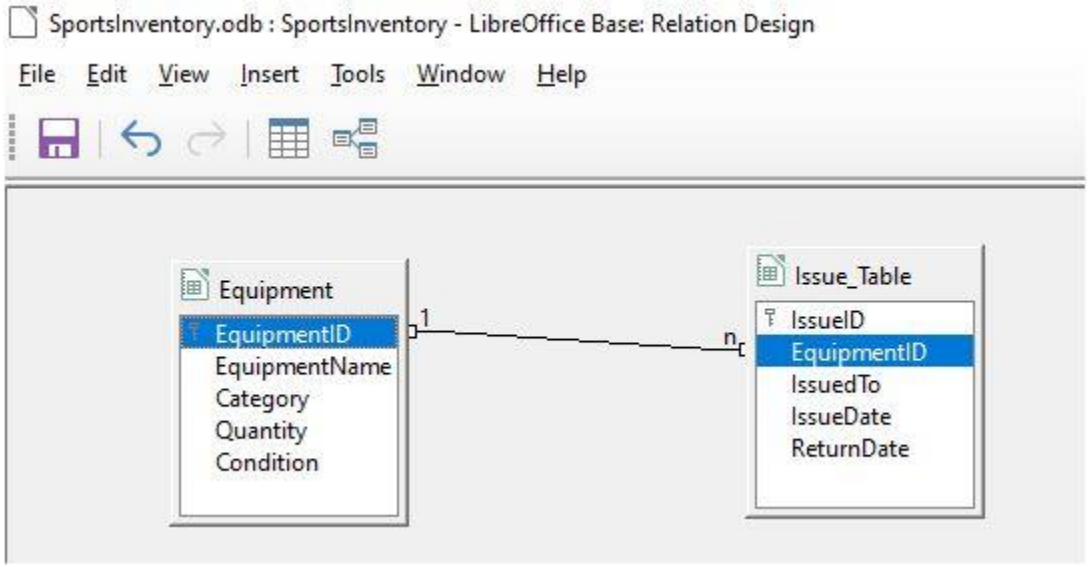
1. Go to **Tools > Relationships**.



2. Add both tables.



3. Create a relationship between **Equipment.EquipmentID** and **Issue.EquipmentID**.

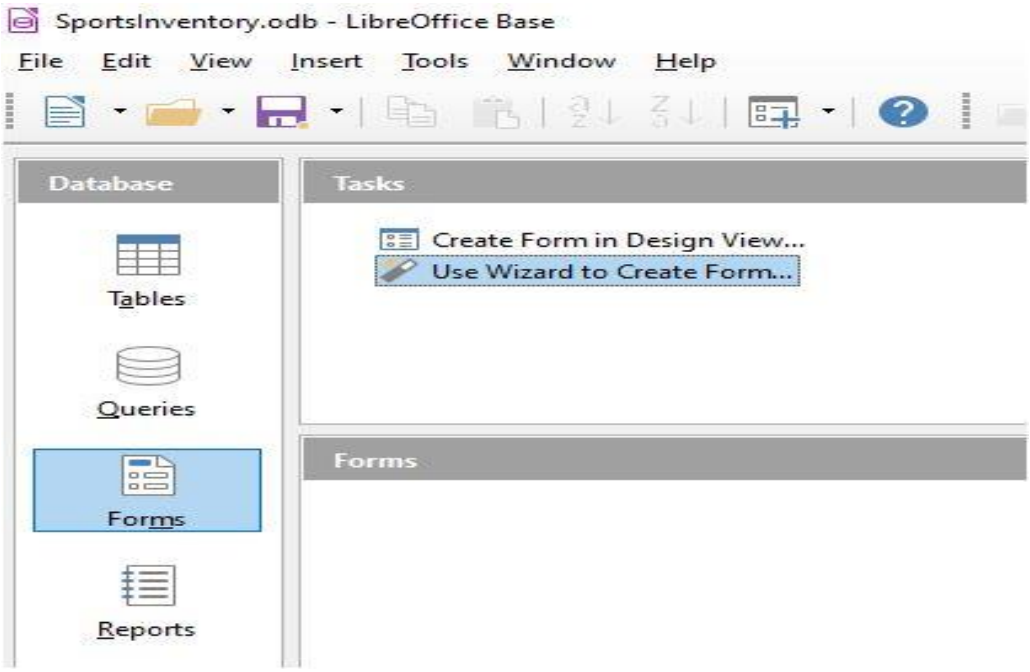


4. Enable **Referential Integrity** to prevent invalid issue entries.

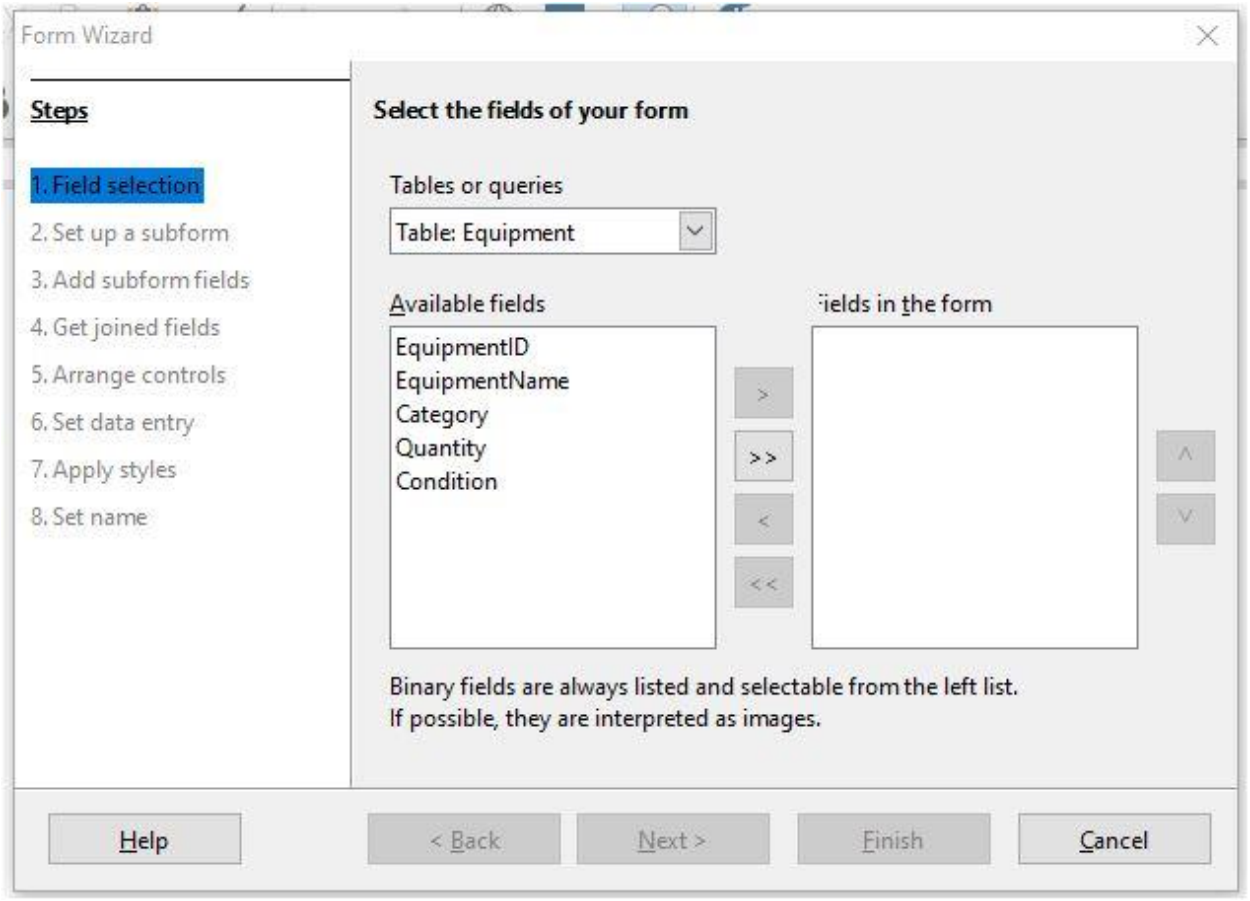
v. Creating a Form and Insert the records in a table

A.Equipment form

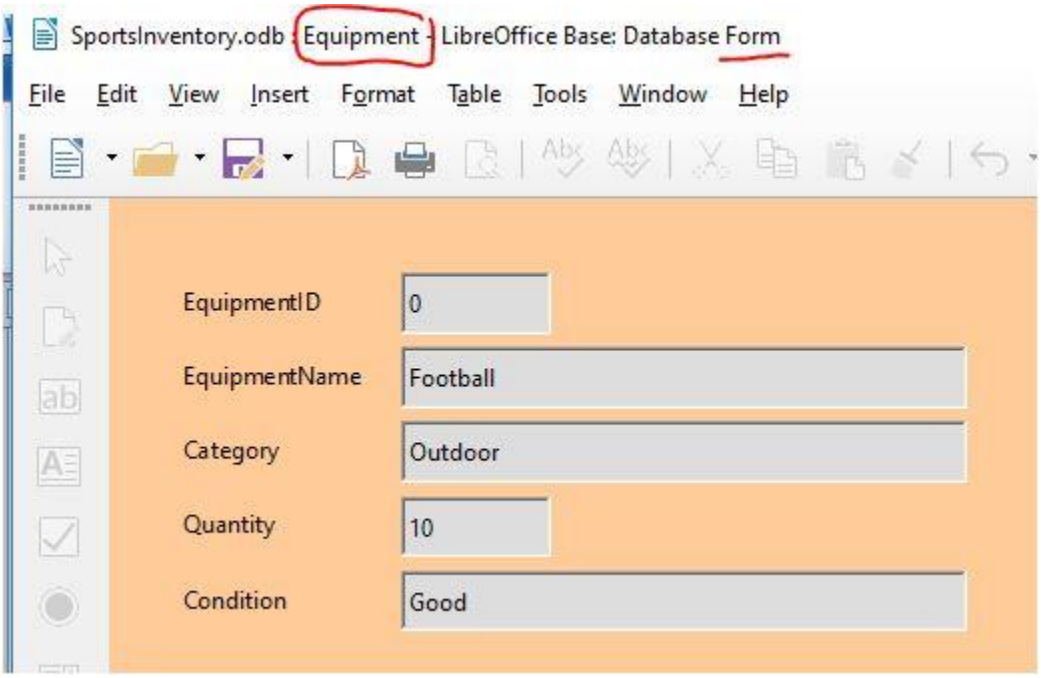
1. Use the Form Wizard.



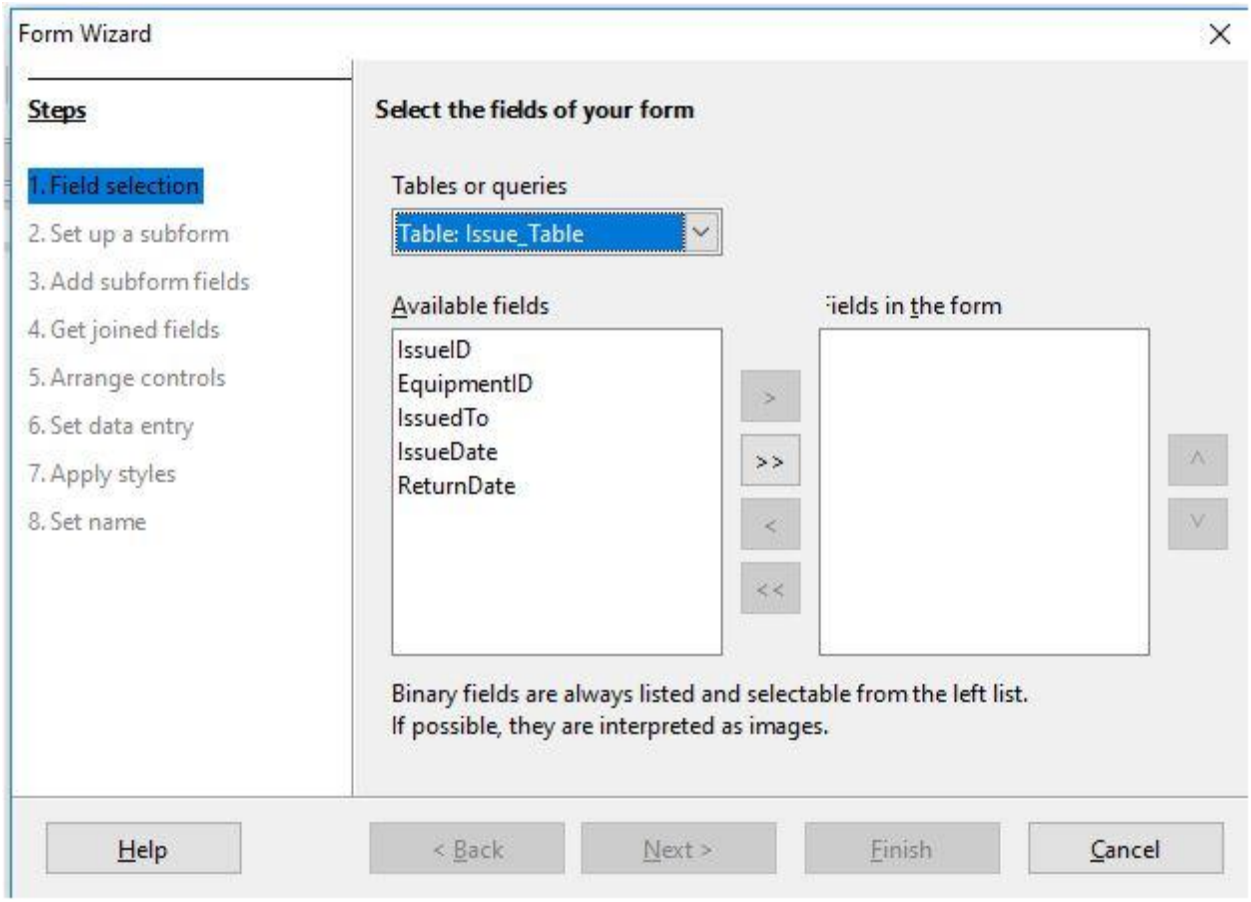
2. Select “Equipment” table.

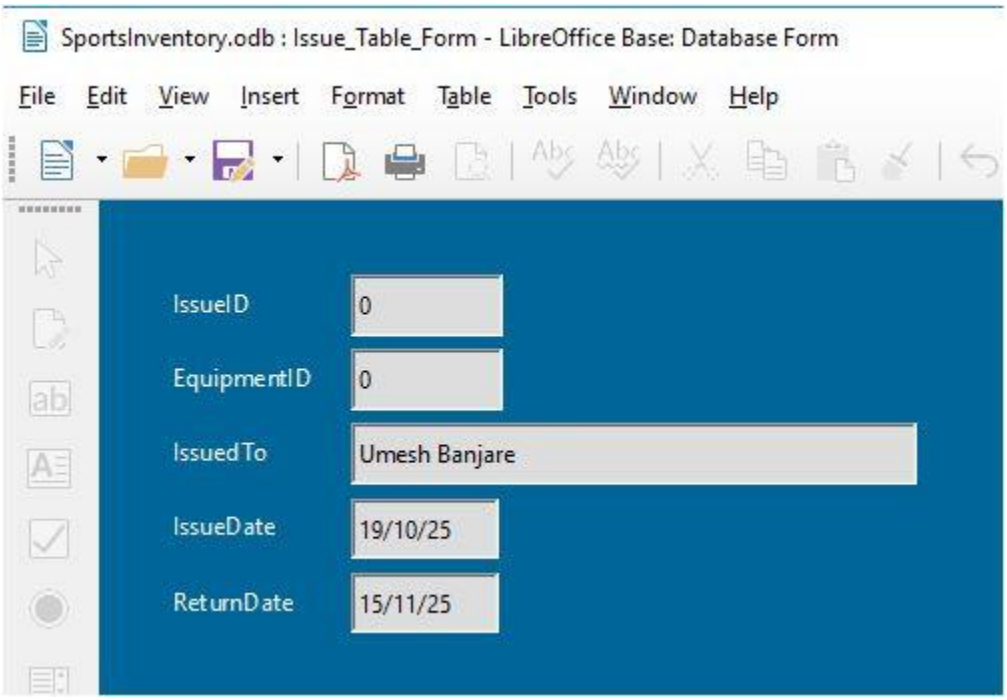


3. Include all fields.
4. Choose a column layout.
5. Save the form as **EquipmentForm**.

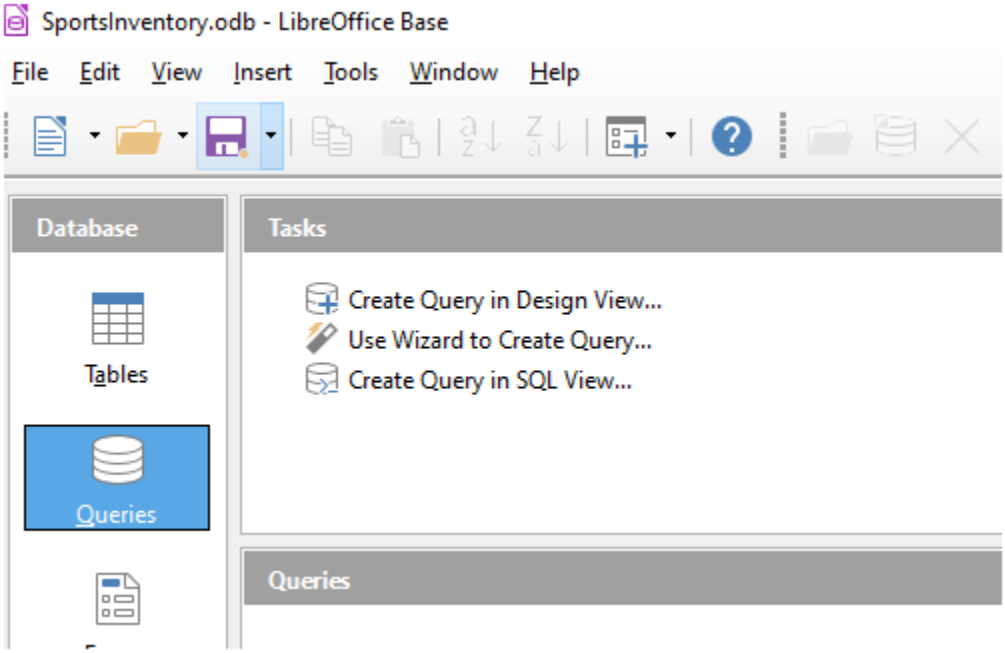


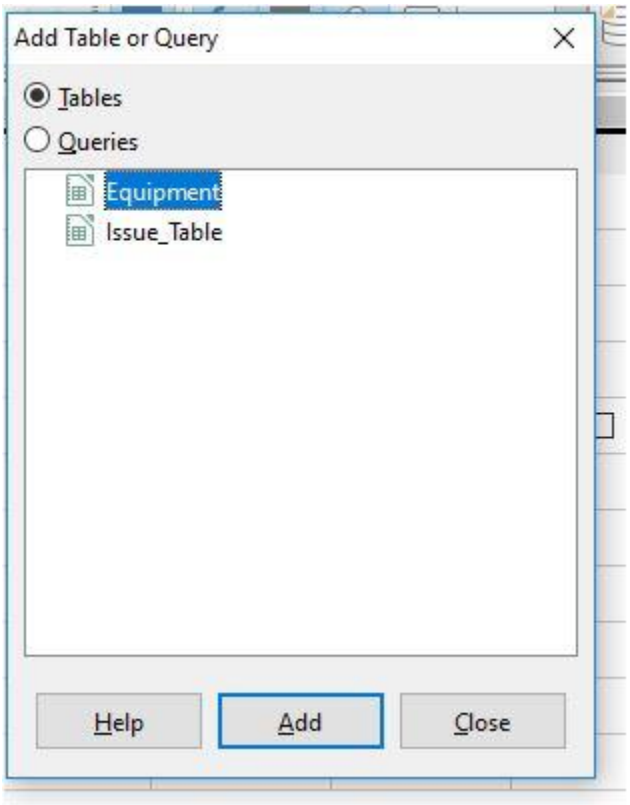
B.Issue_Table-Form



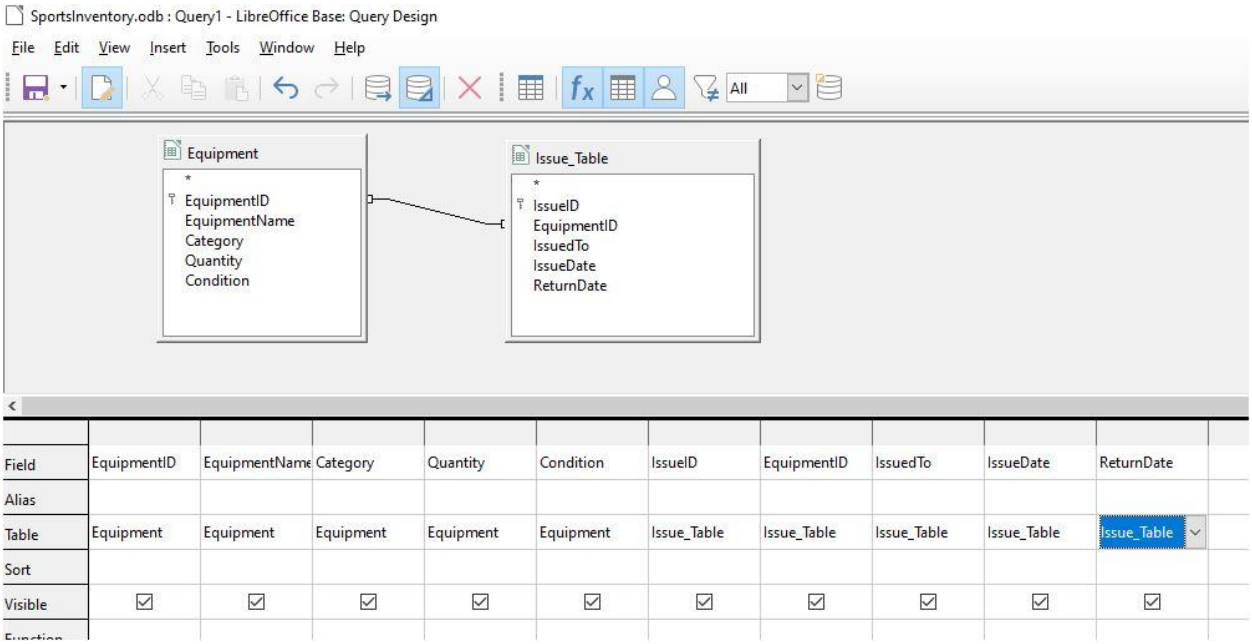

SportsInventory.odb : Issue_Table_Form - LibreOffice Base: Database Form
File Edit View Insert Format Table Tools Window Help
IssueID
0
EquipmentID
0
IssuedTo
Umesh Banjare
IssueDate
19/10/25
ReturnDate
15/11/25

vi. Creating Queries

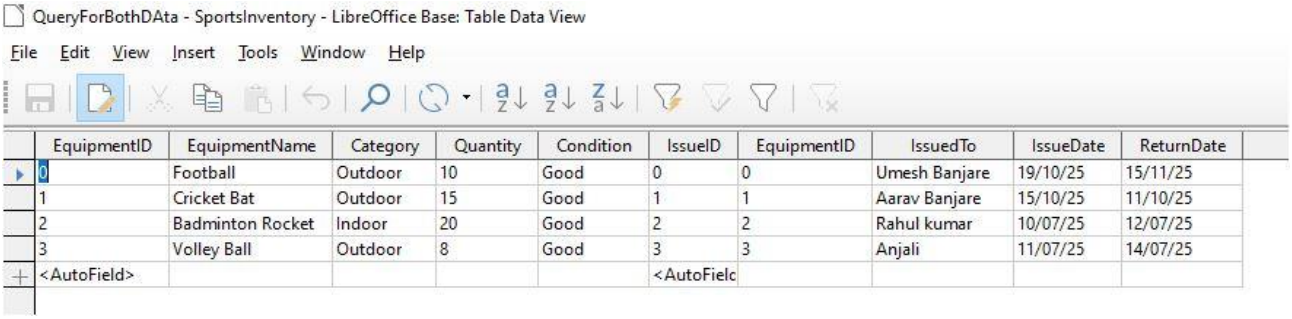




1. Query for displaying datas of both table



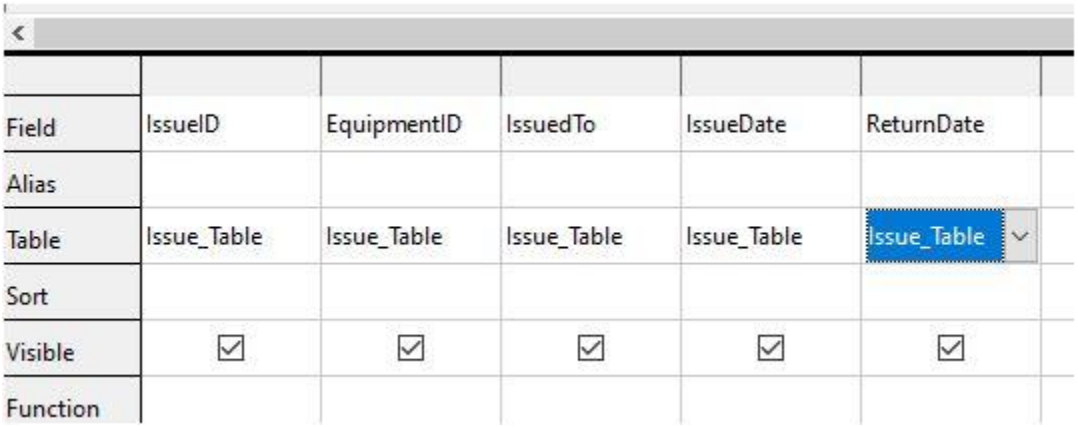
Shows equipment with issue date and Return details

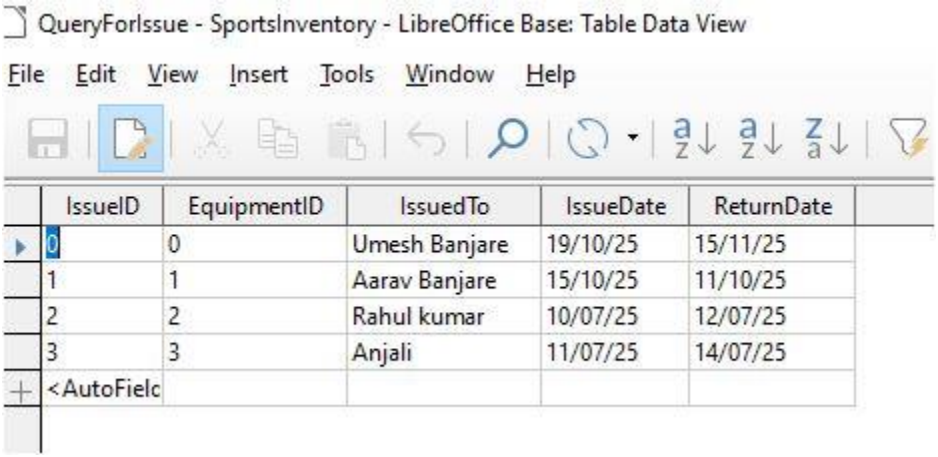


EquipmentID	EquipmentName	Category	Quantity	Condition	IssueID	EquipmentID	IssuedTo	IssueDate	ReturnDate
0	Football	Outdoor	10	Good	0	0	Umesh Banjare	19/10/25	15/11/25
1	Cricket Bat	Outdoor	15	Good	1	1	Aarav Banjare	15/10/25	11/10/25
2	Badminton Rocket	Indoor	20	Good	2	2	Rahul kumar	10/07/25	12/07/25
3	Volley Ball	Outdoor	8	Good	3	3	Anjali	11/07/25	14/07/25
<AutoField>					<AutoFielc				

2. Query to display data from Issued Equipment

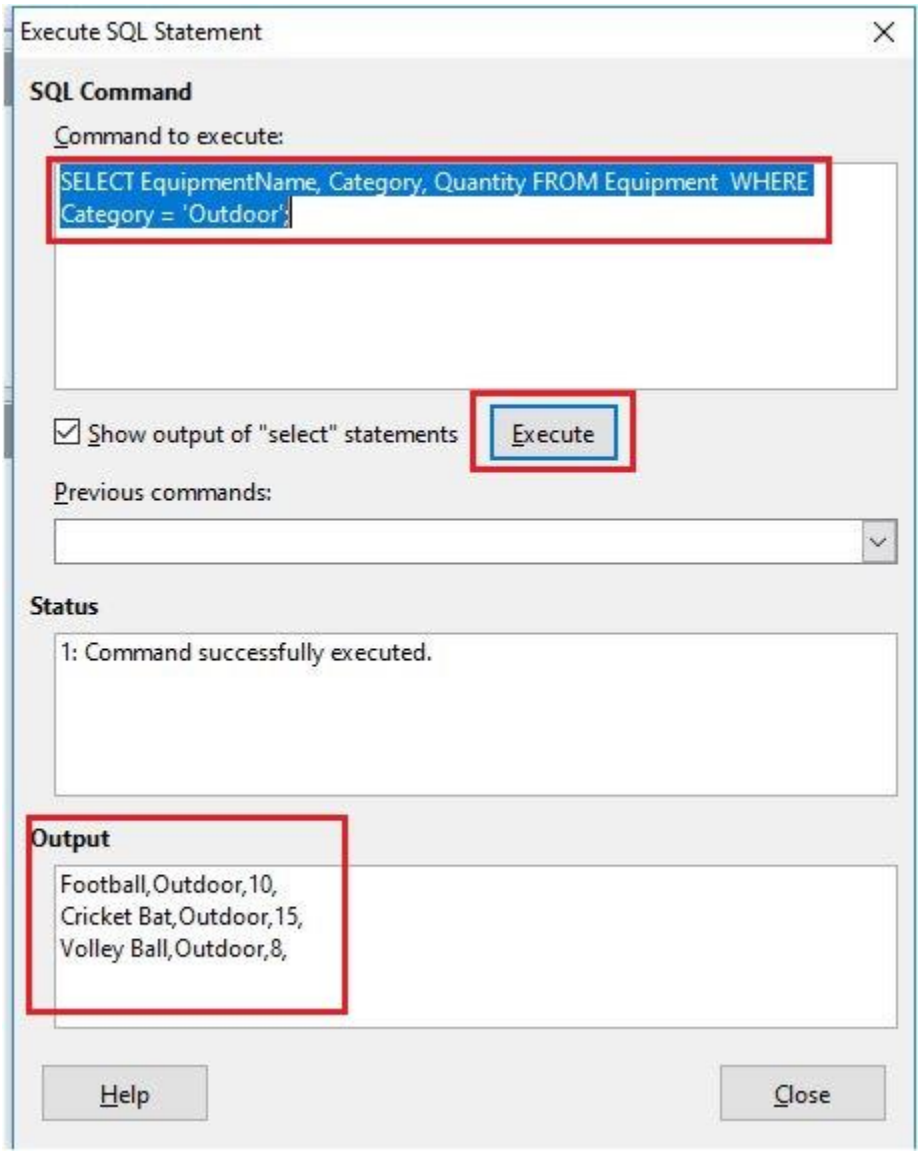
Displays items currently issued and not returned.





IssueID	EquipmentID	IssuedTo	IssueDate	ReturnDate
0	0	Umesh Banjare	19/10/25	15/11/25
1	1	Aarav Banjare	15/10/25	11/10/25
2	2	Rahul kumar	10/07/25	12/07/25
3	3	Anjali	11/07/25	14/07/25
<AutoFielc				

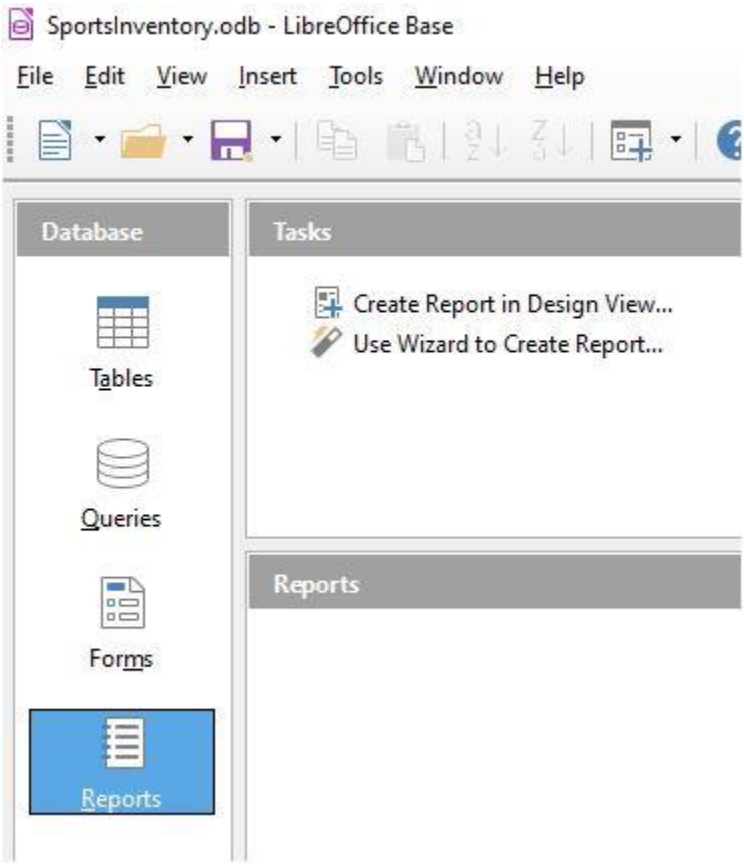
3. Query to display data from Equipment table by Category



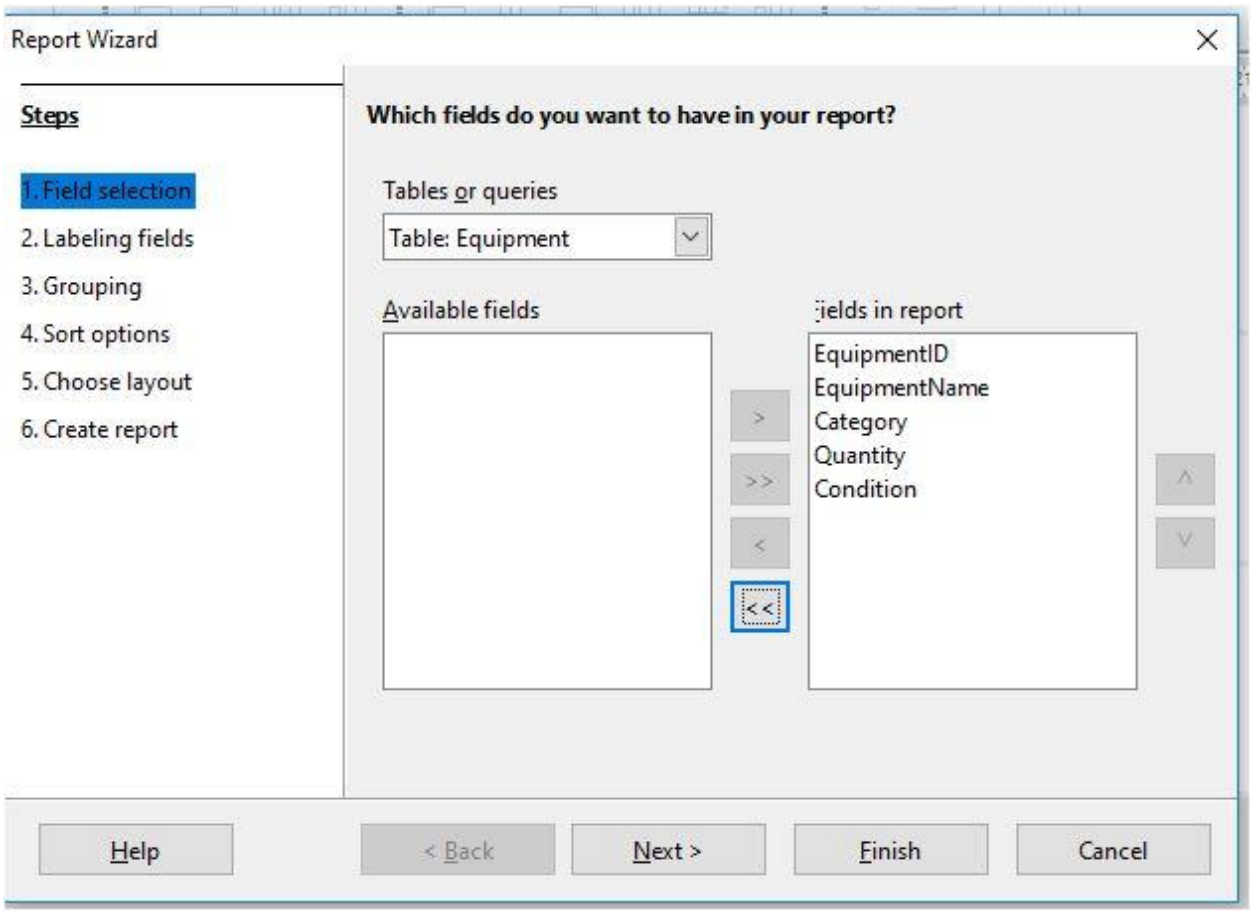
vii. Creating Reports

A.Equipment Report

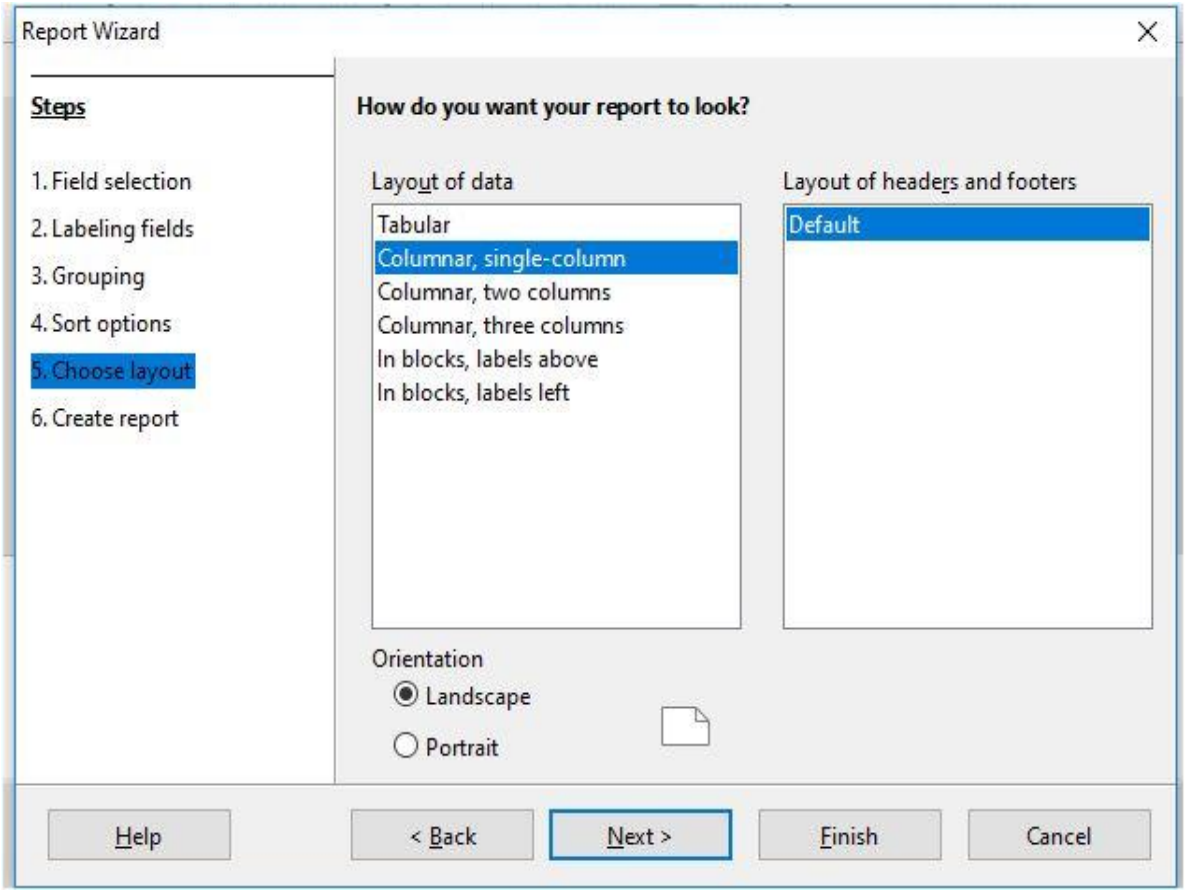
1. Use Report Wizard.
2. Select the **Equipment** table.



3. Add fields like EquipmentName, Category, Quantity, Condition.



4. Choose a tabular or column layout.



5. Save report as **EquipmentReport**.

EquipmentID	0
EquipmentName	Football
Category	Outdoor
Quantity	10
Condition	Good

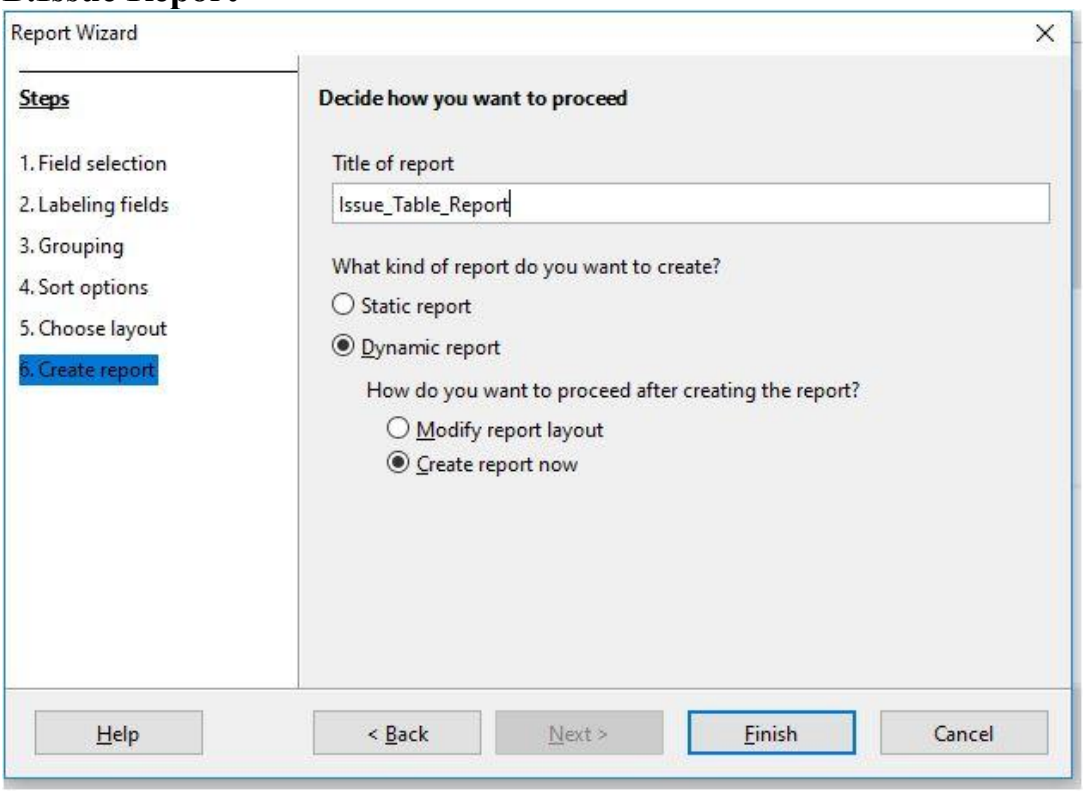
EquipmentID	1
EquipmentName	Cricket Bat
Category	Outdoor
Quantity	15
Condition	Good

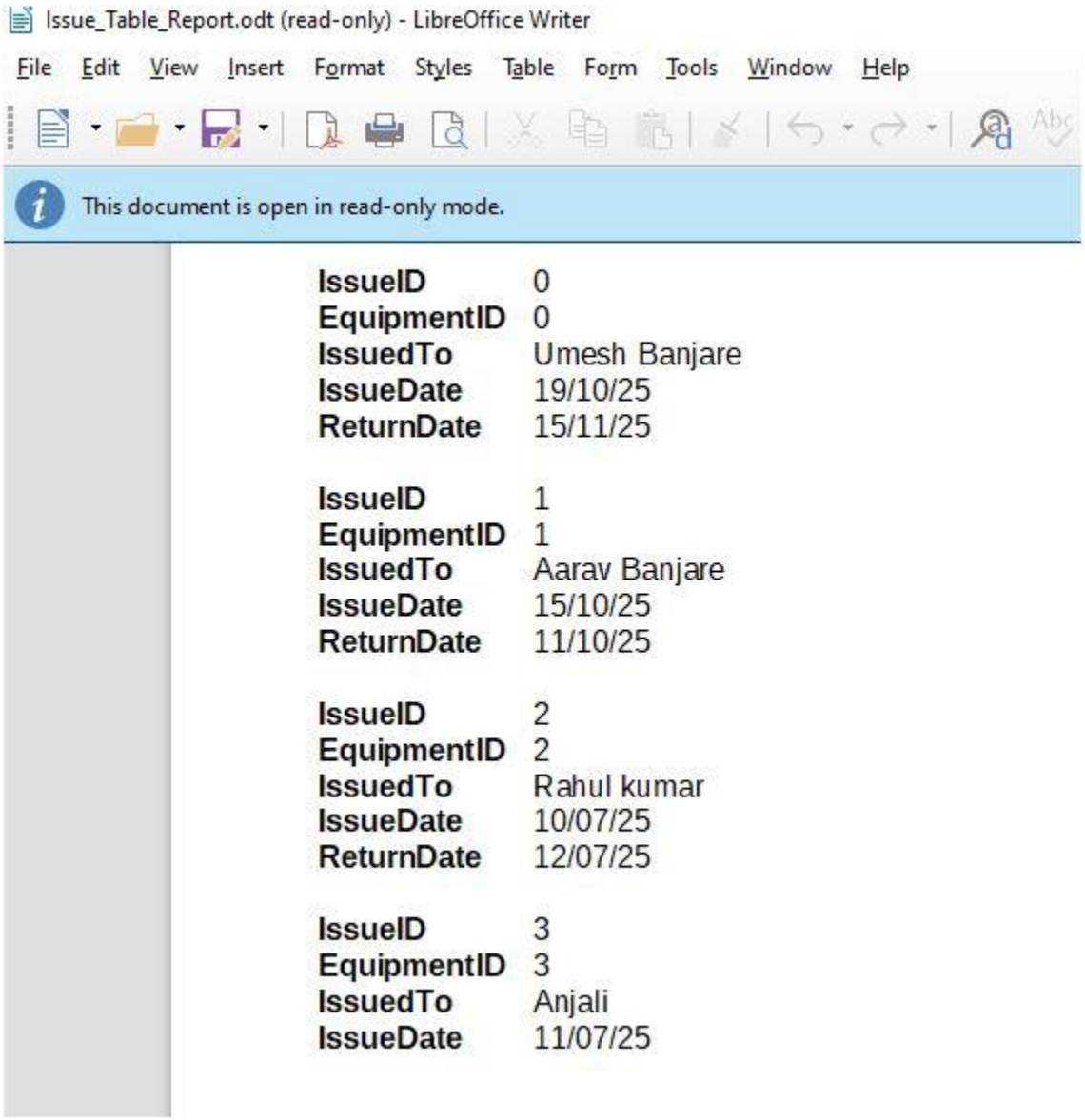
EquipmentID	2
EquipmentName	Badminton Rocket
Category	Indoor
Quantity	20
Condition	Good

EquipmentID	3
EquipmentName	Volley Ball
Category	Outdoor
Quantity	8

Similarly, create a report for equipment issues.

B.Issue Report




Issue_Table_Report.odt (read-only) - LibreOffice Writer
File Edit View Insert Format Styles Table Form Tools Window Help
This document is open in read-only mode.
IssueID 0
EquipmentID 0
IssuedTo Umesh Banjare
IssueDate 19/10/25
ReturnDate 15/11/25
IssueID 1
EquipmentID 1
IssuedTo Aarav Banjare
IssueDate 15/10/25
ReturnDate 11/10/25
IssueID 2
EquipmentID 2
IssuedTo Rahul kumar
IssueDate 10/07/25
ReturnDate 12/07/25
IssueID 3
EquipmentID 3
IssuedTo Anjali
IssueDate 11/07/25

5. Conclusion

The Sport Equipment Inventory Management System helps maintain all sports items in an organised and reliable way. It removes the problems that usually occur with manual registers and ensures that every item is recorded correctly. The system makes it easier to track available equipment, issued items and damaged stock. It also saves time for teachers and staff by providing quick access to information and reducing paperwork. Overall, this system improves efficiency, supports better decision-making and helps the sports department manage resources properly. It ensures smooth functioning of sports activities and provides better facilities to students and players..