**CPSC531-01 Advanced RDBMS**

**Project Proposal**

**CERULEAN BEE**

**By: Group DB-13**

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# **ABSTRACT**

Cerulean Bee is a small company whose product is customized apparels. The main target audience

For this company are local clubs who want customized T-shirts, Jerseys and other apparels which they either sell or give to everyone who registers.

Artwork orders are placed by customers either individually or by an organization. Sometimes customers come with either a vague idea of the artwork they need on attire or computer-printed designs. In most cases, the artist must clean up the artwork reasonably well on the desired item. The art must be color separated so that color has its film. The final product should have color separation, so the colors don't overlap, and the separate layers align separately.

As location of each design can be different it needs a separate pass through the print process as each color requires a different film and a distinct imprint, for achieving this each print will require a different setup. And due to this, customers are charged by the number of artwork elements and the number of colors included. The total price of the artwork generally consists of a setup and per-item charges.

Organizations order items in bulk with the same print, so sometimes, organizations are given a discount. But these discounts are unpredictable and decided by Bob. Most customers provide orders to create attire associated with some event, for example, festival, party, and bike ride. It's the artist's responsibility to work on a design according to the event theme.

# **1.0 Introduction**

1.1 Background

Bob's sales report is the focus of this effort. The main focus of this project is on Bob Bee, an artist who owns a firm that designs and prints t-shirts and jerseys. The purpose of this database project is enabling Bob Bee's management to monitor personnel logs, print orders, project cost evaluations, and artwork orders. SQLITE is used to implement the project. These projects are on database creation and management technology. This project makes it simple to organize all CRUD processes.

The project's key feature is that it maintains all of the information about staff and clients, including the artwork they need computer printed. There would be four major players. They are as follows:

1. Artwork: It will hold information about clients such as their name, contact information, phone number, orders, the date their order was accepted, the sort of item they require, the quantity required, and the color required. And the employee's information, such as the completion date, which employee is working on that item, and how much they are paid.

**Artwork\_order** (**Customer** (customer\_id, customer\_name, contact, phone, discount, total\_price, order\_date, date\_approval, scheduled\_print\_date, event, theme, apparel\_item, base\_colors, max\_colors, **Art**(art\_location, art\_description, art\_cost), employee\_name, date\_complete, art\_colors)

Table

Description automatically generated

1. An employee works log: Employee works log stores the details of employee which task is assigned to which employee, which employee is working on which project for how much time is the employee full time or part-time employee, and what are they using in the art as the employees are paid according to their time logs.

**Employee\_work\_log** (**Employee** (employee\_id, employee\_name, employee\_phone, job\_type, job\_date, start\_time,employee\_work\_time), **Project** (Project\_id, project\_description, art\_item, task))

Table

Description automatically generated

1. Print Order: This figure consists of details of the customer and the art item or colors used for the items. It will store the date of order as well as the delivered date. It would also keep how much amount is collected as a deposit and how much is remaining. It will also show the price as the unit of an item and which size item is needed, or which colors to be used for the order. It will show all the charges for the item, color, delivery charges, and all. It would be like the invoice of the product.

**Print\_order** (**customer** (customer\_id, customer\_name, contact, phone, email) , setup\_charge, deposit, discount, total\_cost, order\_date, due\_date, apparel\_order\_date, art\_film\_date, print\_date, delivered\_date, **apparel\_item** (base color, vendor\_name, item\_size, item\_number, item\_additional\_charges, per\_unit\_base\_price, item\_color\_charge, total\_blank\_price), **art\_details** (art\_print, art\_location, art\_size, art\_color\_charge, art\_slide\_date), total\_color\_list)

Table

Description automatically generated

1. Project Cost Analysis: This figure will only be seen by the admin because it saves the value of how much profit did company earned from each project. How many items are been used, and what's the price of each item per unit. It will also say how much employees work for which project and how they will be paid.

**Project\_cost\_analysis** (**Project** (project\_id, project\_name, event, toal\_item, customer\_id, customer\_name, order\_date, delivered\_date), **Material\_cost** (mat\_item, mat\_per\_unit\_cost, price\_charged, unit\_buy, mat\_cost, total\_mat\_cost, mat\_revenue, total\_mat\_revenue) **Labour\_costs** (employee\_id, employee\_name, task\_id, time, wage\_rate, cost, total\_labour\_cost) **Total\_revenue** (total\_money\_recevied, total\_mat\_charge, total\_artwork\_fees, fixed\_charge, total\_mat\_cost, total\_labour\_cost, shipping\_cost, discounts, project\_net\_profit))

Table

Description automatically generated

Bob develops a report at the end of every project that displays a cost analysis for each recent project. This information has been used to help set prices and to check which jobs increase the profit. He looks at the net profit data first, followed by the subtotal breakdown. He only looks through the detailed material and labor costs in cases that seem unusual.

In this project, we had also described the normalization of the databases. We had also shown the relationship of the table which each other via ER model. At the end of this project proposal, we also showed the Functional requirements like Business functions, Input, and Output layouts.

1.2 Project Goals and Benefits

* The owner gets a system which he can use to analysis the orders placed by customer and check the revenue of the company whether the company has made profit or loss.
* The employee can enter their work logs and the project details they are working presently.
* The customer can place the order by their own according to their like as well as the theme or event style. They can also add color and the artwork the need in their jersey or shirts.

1.3 Relevance and Significance

1. Gained experience with normalizing tables and implementing this in a database.
2. Learned how to create tables for a specific purpose
3. Developed familiarity with relational databases, such as MySQL.
4. 4. Learned how to use databases in a real-world setting.
5. Creating a database and storing all relevant data about employees and apparel is imperative to make an e-commerce website better when it comes to cost analysis.
6. Gained experience with E-commerce projects.

1.4 Assumptions and Limitations

**Assumptions:**

* The employee can view, edit, delete, and add the details of customer and their artwork also. They must enter their worklog according to their project and artwork as well. For doing so they have to be login in their portal.
* The web application should allow customers to register and place an order, as well as view their order status.
* Creating, editing, and deleting different customers, orders, and employees are only available to the owner of the application.
* We assume that the material cost, per unit cost, price charged, and revenue would be only viewed, edited, and deleted by the admin that means the owner of the application only.

**Limitations:**

* There is no analysis system which can tell BOB that what kind of customer are coming to the company in reference to what are their preferences, likes, dislikes, etc.
* There is no database for the warehouse to know whether product is in the stock or out of stock.
* After printing, the result may look different from how it was shown during the ordering process, as the customer only sees the image of the artwork.

# **2.0 Project Requirements**

2.1 Data requirements

2.1.1 Conceptual Model (ER Model)

In the ER model for this project, we are showing all the different entities and their relations. We offer all additional attributes used for the respective entities and show the cardinality of the relationship between entities.

The ER diagram is as follows.

Diagram

Description automatically generated

2.1.2 Logical Data Model (Database Normalization)

**Datebase 1:**

**Artwork\_order** (customer\_id, customer\_name, contact, phone, discount, total\_price, order\_date, date\_approval, scheduled\_print\_date, event, theme, apparel\_item, base\_colors, max\_colors, art\_location, art\_description, art\_cost, employee\_name, date\_complete, art\_colors)

**1NF:**

Customer (customer\_id, art\_id, customer\_name, contact, phone, discount, total\_price, order\_id, order\_date, date\_approval, scheduled\_print\_date, theme, apparel\_item, base\_colors, max\_colors)

Art (art\_id, art\_location, art\_description, art\_cost,employee\_id, employee\_name, date\_complete, art\_colors)

**2NF:**

Customer (customer\_id, art\_id, customer\_name, contact, phone, discount, total\_price, order\_id)

Order\_details (order\_id, order\_date, date\_approval, scheduled\_print\_date, theme, apparel\_item, base\_colors, max\_colors)

Art (art\_id, art\_location, art\_description, art\_cost,employee\_id, employee\_name , art\_colors, date\_complete)

**3NF:**

Customer (customer\_id, art\_id, customer\_name, contact, phone, discount, total\_price, order\_id)

Order\_details (order\_id, order\_date, date\_approval, scheduled\_print\_date, theme, apparel\_item, base\_colors, max\_colors)

Art (art\_id, art\_location, art\_description, art\_cost, employee\_id, art\_colors, date\_complete)

Employee (employee\_id, employee\_name)

**Database 2:**

**Employee\_work\_log** (employee\_id, employee\_name, phone, job\_type, job\_date, start\_time, project\_id, project\_description, art\_item, task\_id, time)

**1NF:**

Employee (employee\_id, employee\_name, employee\_phone, job\_type, job\_date, start\_time, employee\_work\_time, project\_id)

Project (Project\_id, project\_description, art\_items, task)

**2NF:**

Employee (employee\_id, employee\_name, employee\_phone, job\_type, job\_date, start\_time, employee\_work\_time, project\_id)

Project (Project\_id, project\_description, art\_items, task)

**3NF:**

Employee (employee\_id, employee\_name, employee\_phone, job\_type, job\_date, start\_time, employee\_work\_time, project\_id)

Project (Project\_id, project\_description, art\_items, task)

**Database 3:**

**Print\_order** (customer\_id, customer\_name, contact, phone, email, setup\_charge, deposit, discount, total\_cost, order\_date, art\_slide\_date, due\_date, apparel\_order\_date, art\_film\_date, print\_date, delivered\_date, **apparel\_item** (base\_color, vendor\_name, item\_size, item\_number, item\_additional\_charges, per\_unit\_base\_price, item\_color\_charge, total\_blank\_price), art\_print, art\_location, art\_size, art\_color\_charge, total\_color\_list)

**1 NF:**

Print\_order (customer\_id, customer\_name, contact, phone, email, setup\_charge, deposit, discount, total\_cost, order\_date, art\_slide\_date, due\_date, apparel\_order\_date, art\_film\_date, print\_date, delivered\_date, item\_id, art\_print, art\_location, art\_size, art\_color\_charge, total\_color\_list)

Apparel\_item (base\_color, vendor\_name, item\_id, item\_size, item\_number, item\_additional\_charges, per\_unit\_base\_price, item\_color\_charge, total\_blank\_price)

**2 NF:**

Customer (customer\_id, customer\_name, contact, phone, email)

Print\_order (Customer\_id, setup\_charge, invoice\_id, art\_slide\_date, apparel\_order\_date, art\_film\_date, print\_date, delivered\_date, item\_id, art\_id, total\_color\_list)

Art (art\_id, art\_print, art\_location, art\_size, art\_color\_charge)

Invoice (invoice\_id, deposit, discount, total\_cost, order\_date, due\_date)

**3 NF:**

Customer (customer\_id, customer\_name, contact, phone, email)

Print\_order (Customer\_id, setup\_charge, invoice\_id, item\_id, art\_id, total\_color\_list)

Order\_date (art\_slide\_date, apparel\_order\_date, art\_film\_date, print\_date, delivered\_date)

Art (art\_id, art\_print, art\_location, art\_size, art\_color\_charge)

Invoice (invoice\_id, deposit, discount, total\_cost, order\_date, due\_date)

**Datebase 4:**

**Project\_cost\_analysis** (Project (project\_id, project\_name, event, toal\_item, customer\_id, customer\_name, order\_date, delivered\_date), **Material\_cost** (mat\_item, mat\_per\_unit\_cost, price\_charged, unit\_buy, mat\_cost, total\_mat\_cost, mat\_revenue, total\_mat\_revenue) **Labour\_costs** (employee\_id, employee\_name, task\_id, time, wage\_rate, cost, total\_labour\_cost) **Total\_revenue** (total\_money\_recevied, total\_mat\_charge, total\_artwork\_fees, fixed\_charge, total\_mat\_cost, total\_labour\_cost, shipping\_cost, discounts, project\_net\_profit))

**1NF:**

Project(project\_id, project\_name, event, toal\_item, customer\_id, customer\_name, order\_date, delivered\_date),

Material\_cost (mat\_item, mat\_per\_unit\_cost, price\_charged, unit\_buy, mat\_cost, total\_mat\_cost, mat\_revenue, total\_mat\_revenue)

Labour\_costs (employee\_id, employee\_name, task\_id, time, wage\_rate, cost, total\_labour\_cost)

Total\_revenue (total\_money\_recevied, total\_mat\_charge, total\_artwork\_fees, fixed\_charge, total\_mat\_cost, total\_labour\_cost, shipping\_cost, discounts, project\_net\_profit)

**2NF:**

Project (project\_id,project\_name, event, toal\_item, customer\_id,),

Customer (customer\_id, customer\_name, order\_date, delivered\_date)

Material\_cost (mat\_item, mat\_per\_unit\_cost, price\_charged, unit\_buy, mat\_cost, total\_mat\_cost, mat\_revenue, total\_mat\_revenue)

Labour\_costs (employee\_id, employee\_name, task\_id, time, wage\_rate, cost, total\_labour\_cost)

Total\_revenue (total\_money\_recevied, total\_mat\_charge, total\_artwork\_fees, fixed\_charge, total\_mat\_cost, total\_labour\_cost, shipping\_cost, discounts, project\_net\_profit)

**3NF:**

Project (project\_id,project\_name, event, toal\_item, customer\_id,),

Customer (customer\_id, customer\_name, order\_date, delivered\_date)

Material\_cost (mat\_item, mat\_per\_unit\_cost, price\_charged, unit\_buy, mat\_cost, total\_mat\_cost, mat\_revenue, total\_mat\_revenue)

Labour\_costs (employee\_id, employee\_name, task\_id, time, wage\_rate, cost, total\_labour\_cost)

Total\_revenue (total\_money\_recevied, total\_mat\_charge, total\_artwork\_fees, fixed\_charge, total\_mat\_cost, total\_labour\_cost, shipping\_cost, discounts, project\_net\_profit)

**To identify fields with unique values:**

For connecting data stored in a different table, we need a unique value to join the tables. Each table should have individual identities to link other tables. Such a bridge of sets is called the primary key. This database also has a primary key, foreign key, and multiple fields of primary key too.

**For example:**

The table art details have their primary key attribute named ART\_ID, and in the table, there is also a foreign key called EMP\_ID, which creates a bridge between these two tables.

The order date table also has ORDER\_ID as a foreign key that links the Invoice table as ORDER\_ID is the primary key.

**To determine the relationships between the tables:**

Once the information is divided in their subjective tables, we need to make the relationship between the tables. Relationships between the tables are grouped in 4 parts:

1. One to one (1 – 1)

2. One to many (1 – M)

3. Many to many (M – M)

4. Many to One (M – 1)

This relationship between the table is figured in the ER model.

Diagram, schematic

Description automatically generated

2.2 Functional Requirements (Business functions, Input, and Output Layouts)

Bob wants to fetch all the required data to proceed with and complete within the given duration.

Let's see how much information Bob fetch from various images will

1. **Figure 1**: Bob wants to get all the customer details, Art details, colors of the art, order dates, on which date it should be printed, date of approval, customer event, customer theme, apparel items. So, if he wants detailed customer data, he can enter Customer\_id to get the information.
2. **Figure 2**: In this figure, bob will find all the employee details, and for that, he needs employee\_id for them. With employee\_id, he can identify that which employee is working on a particular task or art.
3. **Figure 3**: Bob will find all the print order details ordered by the customer in this figure. Details include customer details, related dates, different costs, apparel/item details, and art details.
4. **Figure 4**: In this figure, Bob will find all the project cost analysis reports. So, he can track all the profit and loss statements. This figure can retrieve project details, customer details, material cost, labor cost, total money received, artwork fee, shipping charges, discount, and net profit.

2.2.1 Interface Requirements

**Customer**

* Customer\_id accepts numeric data entry
* Customer\_name accept text data entry
* Customer\_contact accept numeric data entry
* Customer\_phone accept numeric data entry
* Customer\_email accept email data entry
* Customer\_discount accepts numeric data entry
* Customer\_order\_id accepts numeric data entry

**Order\_details**

* Customer\_order\_id accepts numeric data entry
* Order\_date accepts data entry
* Date\_approval accepts data entry
* Scheduled\_print\_date accepts data entry
* Theme accepts character entry
* Event accepts character entry
* Apparel\_item accepts character entry
* Base\_color accepts color entry
* Max\_colors accept color entry

**Art**

* Art\_id accepts numeric data entry.
* Art\_location accepts location entry
* Art\_print accept design entry.
* Art\_description accepts character only.
* Art\_cost accept numeric entry.
* Art\_size accept numeric as well as length entry.
* Art\_colors accept character entry.
* Art\_color\_change accepts color entry.
* Employee\_id accepts numeric data entry.

**Employee**

* Employee\_id accepts numeric data entry
* Employee\_name accepts character entry
* Employee\_phone accept numeric data entry
* Job\_type accept boolean type
* Job\_date accept data entry
* Start\_time accept time entry
* Employee\_work\_time accept time entry
* Project\_id accept numeric data entry.

**Project**

* Project\_id accept numeric data entry
* Project\_name accept character entry
* Project\_description accept character entry
* Project\_task accept character entry
* Event accept character entry
* Art\_items accept character entry
* Customer\_id accept numeric data entry

**Material Cost**

* Material\_id accept numeric data entry
* Material\_item accept character entry
* Material\_per\_unit\_cost accept numeric data entry
* Material\_qty accept numeric data entry
* Material\_cost accept numeric data entry
* Total\_material\_cost accept numeric data entry
* Material\_revenue accept numeric data entry
* Total\_material\_revenue accept numeric data entry

**Total Revenue**

* Order\_id accept numeric data entry
* Total\_money\_recevied accept numeric data entry
* Total\_material\_charge accept numeric data entry
* Total\_material\_cost accept numeric data entry
* Total\_artwork\_fees accept numeric data entry
* Fixed\_charge accept numeric data entry
* Total\_labour\_cost accept numeric data entry
* Shipping\_cost accept numeric data entry
* Project\_net\_profit accept numeric data entry

**Print order**

* Customer\_id accepts numeric data entry
* Setup\_charge accepts numeric data entry
* Inovice\_id accept numeric data entry
* Item\_id accept numeric data entry
* Art\_id accept numeric data entry
* Total\_color\_list accepts character data

**Order date**

* Customer\_id accepts numeric data entry
* Art\_slide\_date accepts date entry
* Apparel\_order\_date accept date entry
* Art\_film\_date accpet date entry
* Print\_date accpet date entry
* Delivered\_date accpet date entry

**Invoice**

* Invoice\_id accept numeric data entry
* Deposit\_amount accept numeric data entry
* Discount\_amount accept numeric data entry
* Total\_cost accept numeric data entry
* Order\_date accept date entry
* Due\_date accept date entry

**labour cost**

* Employee\_id accept numeric data entry
* Employee\_name accept character data entry
* Task\_id accept numeric data
* Time accept time data
* Wage\_rate accept numeric data
* Labour\_cost accept numeric data
* Total\_labour\_cost accept numeric data entry

2.2.2 Business Requirements

The business requirement which should be met for this project are as follows:

* All information stored in the database can be accessed and modified by employees.
* Customer can fill their details according to their apparel, artwork, apparel theme and submit the form on the website
* BOB can create, view, edit and delete all the information of customers as well as employees.
* All information must be stored in databases.
* BOB can track all the records for artwork order, print order, employee work log, project cost analysis.
* All the employees would update their worklogs and artwork, they are assigned to their project.

# **3.0 Methodology**

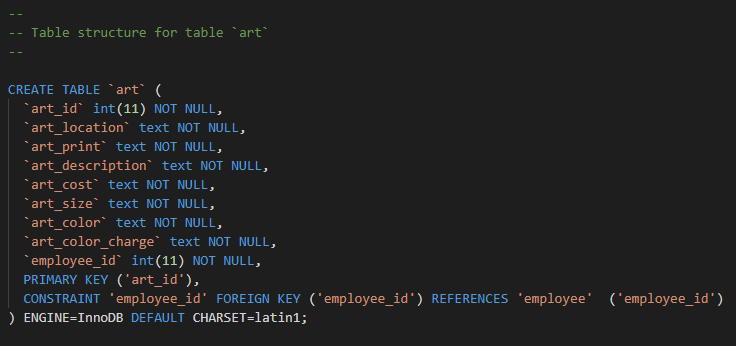
The following topics are intended to serve as a guide:

This section, you may include the following items.

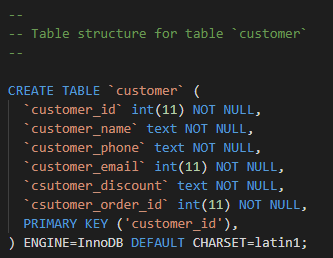
1. Database and tables creation DDLs.
2. Project methods, tools, and techniques.
3. System requirements: Hardware and software requirements and system architecture, programming languages being used.
4. Data Model and Data requirements: Source of data inputs and reports in details.
5. Design and functional requirements - List all application functions including inputs, outputs, screens and reports etc., summary by function names and explained in detail. (Using Tables for summary)
6. System installation and implementation

3.1 DDL Commands

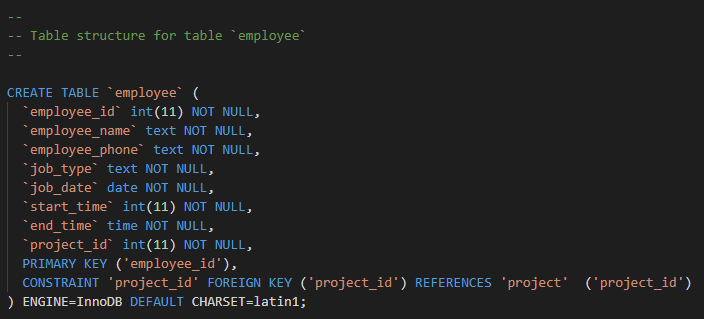
**Art Table**



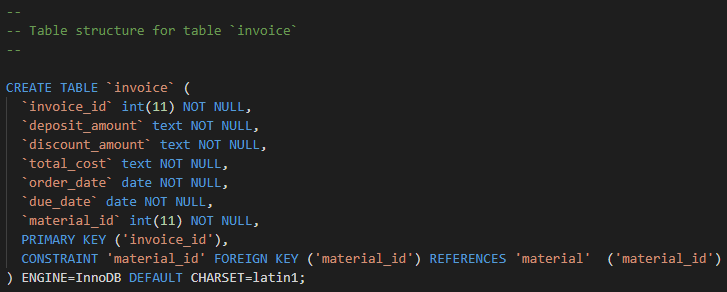
**Customer Table**



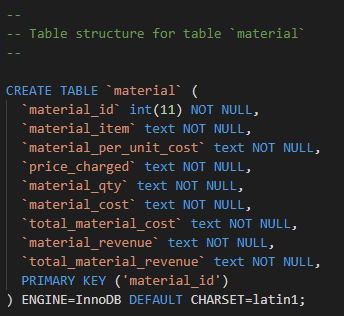
**Employee Table**



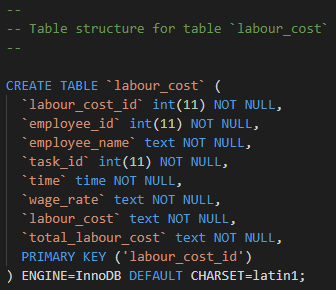
**Invoice Table**



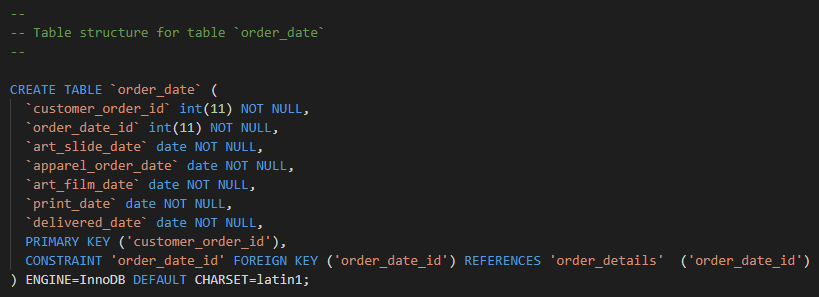
**Material Table**



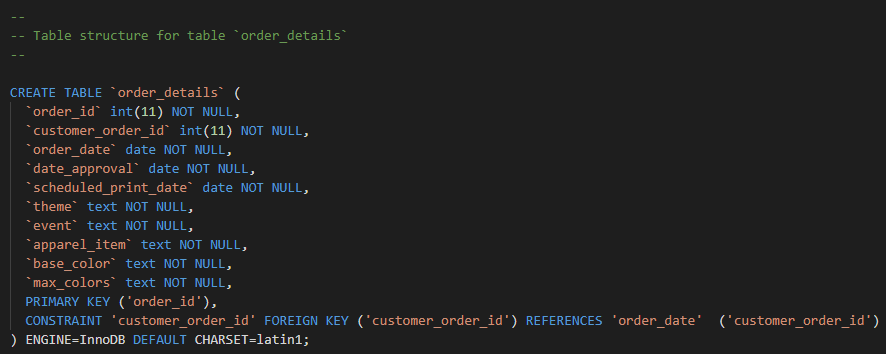
**Labor Table**



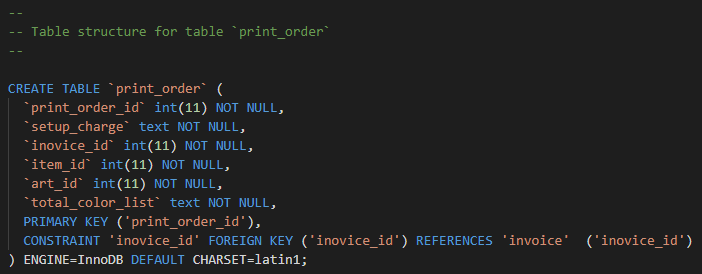
**Order Date Table**



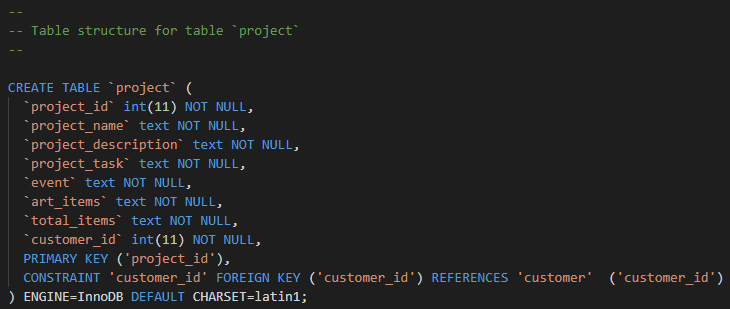
**Order Details Table**



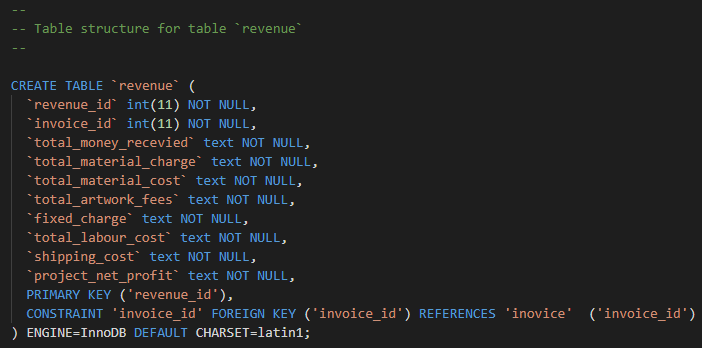
**Print Order Table**



**Project Table**



**Revenue Table**



3.2 Software Stack

3.2.1 Database:

* MySQL

3.2.2 Programming Language:

* **Backend**: Core PHP
* **Frontend**: HTML, CSS, Bootstrap, JavaScript

3.2.3 Software:

* Xampp
* PhpMyAdmin
* Visual Studio Code Editor

**3.2.4 Hardware**:

* Operating System: Windows 11

# **4.0 Results and Discussion**

This chapter includes an objective description and analysis of the application results (outputs screens and reports). Limit the use of charts, tables, and figures to those that are needed to support the narrative. Full reports can be included as part of the appendices.

The following topics are intended to serve as a guide:

* Functional process screens.
* Fully explained query Reports.
* Summary of screen results or reports and explained in detail.

4.1 Screens

**Login Screen**

**Graphical user interface, application, Teams

Description automatically generated**

**Sign Up**

**Graphical user interface, application, Teams

Description automatically generated**

**Dashboard**

**Graphical user interface, application, Teams

Description automatically generated**

**Artwork Order**

**Graphical user interface, application

Description automatically generated**

**Add Artwork Order**

**Graphical user interface, application, Teams

Description automatically generated**

**Employee Work Log**

**Graphical user interface, application, Teams

Description automatically generated**

**Add Employee Work Log**

**Graphical user interface, application

Description automatically generated**

**Print Order**

**Graphical user interface, application

Description automatically generated**

**Add Print Order**

**Graphical user interface

Description automatically generated with medium confidence**

**Project Cost Analysis**

**Graphical user interface, application, Teams

Description automatically generated**

**Add Project Cost Analysis**

**Graphical user interface, application, Teams

Description automatically generated**

# **5.0 Conclusions**

5.1 Significance

* Practical design-based database and web application experience

5.2 Learnings from this project

* Performing CRUD operations
* Application of database concept to real world objects.
* Application of front-end development tools
* We understand the how we can normalize any big sets of databases, how we can make it redundant and improve its efficiency.
* Also, Got exposure and hands-on experience in Programming language like HTML, CSS, Bootstrap, PHP.

5.3 Future Work

* In Future using AI and Computer Vision on the system we can create 3D trial on the system itself.
* We can predefine some items into the database so that it will be easy to add in invoice.
* We can improve User Interaction with the system.
* we can build a dynamic data set which can contain the values of different variants of same products.
* We can make an analysis system with the help of data base that what kind of customers are coming to BOB. (What are their preferences, likes, dislikes, size, etc...)

# **6.0 Appendices**

**Includes/**

breadcrumb.php

connections.php

footer.php

header.php

**map/**

style.css.map

**assests/**

**js/**

dashboard.js

main.js

map.js

**sass/**

accordion.scss

alerts.scss

badges.scss

btn.scss

cards.scss

datepicker.scss

dropDown.scss

features.scss

forms.scss

modal.scss

pagination.scss

pricing.scss

progressbar.scss

range-slider.scss

social.scss

components.scss

**element/**

breadcrumb.scss

content-block.scss

footer.scss

forum.scss

menu.scss

product.scss

sidebar.scss

tab.scss

team.scss

testimonial.scss

timeline.scss

elements.scss

**general/**

general.scss

**modules/**

dashboard.scss

product-single.scss

modules.scss

responsive.scss

style.scss

table-of-contents.scss

themes.scss

**vendor\_assets/**

**css/**

**bootstrap/**

bootstrap.css

bootstrap.scss

config.bs.scss

animate.css

font-awesome.min.css

jquery-ui.css

line-awesome.min.css

magnific-popup.css

owl.carousel.css

select2.min.css

simple-line-icons.css

slick.css

trumbowyg.min.css

venobox.css

**fonts/**

fontawesome.otf

line-awesome.ttf

simple-line-icon.eot

**js/**

jquery-ui.min.js

owl.carousel.min.js

select2.full.min.js

slick.min.js

trumbowyg.min.js

venobox.min.js

waypoint.min.js

add-artwork-order.php

add-employee-work.php

add-print-order.php

add-project-cost-analysis.php

artwork-order.php

check.php

dashboard.php

delete.php

employee-details.php

index.php

login.php

logout.php

print-order.php

project-cost-analysis.php

signup.php

style.css

view-artwork-order.php

view-employee-work.php

view-order.php

view-print-order.php

view-project-cost-analysis.php