Milestone #1 & #2

CSD310

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Business Rules for Parchment Press Case Study

1. Each hourly employee can work overtime, but salaried employees cannot
2. Only one employee can have the most and least sales
3. Each department has only one buyer.
4. Each department can only have one report.
5. Each employee can belong to only one department.
6. Each department can have multiple direct employees.

Assumptions

The name of the individual employees is not necessary but would be a part of the business data and the case study requested a report of the employee with the most sales and least sales, a name can make results more readable than the ID. It is assumed that overtime are any worked hours greater than 40. Hours are assumed to be for the week.

3NF

A screenshot of a computer

Description automatically generated with medium confidence

ERD

Diagram

Description automatically generated

Reports

The case study reads as follows:

The owners of the parchment press store are trying to decide if they should open another location in town and they are using a marketing survey to do this. They need the following answers to determine if this is possible:

**“What are the sales reports by department for each month for the past six months? “**

-this helps them understand if the business is growing enough to scale to an additional location

**Employee time. During each of the last four quarters, how many hours did each employee work?**

-this also helps determine business growth and how much growth has happened over the last year

“**Which buyer brought in the most inventory? Which brought in the least?”**

-determines employee performance and also gives insight into what is selling

1. Run a query of the sales reports of each department in 6 months—in each individual month
2. Run a query of employee time worked in each quarter
3. Run a report of the total inventory sales per buyer grouped by department

Script for query one screenshot:

Shows what each department has made in sales

Text

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Script for query # 2

Run a query of employee time worked in each quarter:

Can show need for new location or not

Text

Description automatically generated

Script for query #3

Query of the buyer with the most and least sales

Shows buyer who has most sales of inventory so what is selling can be determined

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Description automatically generated