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| Table name | Purpose | Query |
| Spend | View All Expenses | SELECT \* FROM spend; |
|  | **Monthly Expenditure Summary** Calculate total spending per month for budgeting and cost tracking: | SELECT EXTRACT(MONTH FROM date) AS month,  EXTRACT(YEAR FROM date) AS year,  SUM(amount) AS total\_expenses  FROM spend  GROUP BY year, month  ORDER BY year, month; |
|  | **Total Spending by Type (e.g., Utilities, Rent) Summarize spending by type to understand cost distribution:** | SELECT type, SUM(amount) AS total\_spent  FROM spend  GROUP BY type  ORDER BY total\_spent DESC; |
|  | **Track Expenses by Payment Method Check how much was paid by each payment method, e.g., cash, card, etc.:** | SELECT paid\_by, SUM(amount) AS total\_paid  FROM spend  GROUP BY paid\_by; |
|  | **Daily Spending for a Specific Date View daily expenses for a selected day (e.g., 2024-11-01):** | SELECT \*  FROM spend  WHERE date = '2024-11-01'; |
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| Both Table sell\_Wholesale  Sell\_retail | **To get the combined monthly turnover for both wholesale and retail sales, you can aggregate the sales data from both the sell\_wholesale and sell\_retail tables.** | SELECT month,  SUM(wholesale\_turnover) AS wholesale\_turnover,  SUM(retail\_turnover) AS retail\_turnover,  (SUM(wholesale\_turnover) + SUM(retail\_turnover)) AS total\_turnover  FROM (  SELECT EXTRACT(MONTH FROM time) AS month,  amount AS retail\_turnover,  0 AS wholesale\_turnover  FROM sell\_retail  UNION ALL  SELECT EXTRACT(MONTH FROM time) AS month,  0 AS retail\_turnover,  amount AS wholesale\_turnover  FROM sell\_wholesale  ) AS combined\_sales  GROUP BY month  ORDER BY month; |
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| Employ Management | **To get details of each employee with their balances and advances:** | SELECT emp\_id, name, mobile, location, salary,  advance, balance, stardate, enddate  FROM employ; |
|  | **To calculate monthly payroll based on employee salaries and advances:** | SELECT SUM(salary - advance) AS monthly\_payroll  FROM employ  WHERE enddate IS NULL OR enddate >= CURRENT\_DATE; |
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| Dealer | **To calculate monthly turnover from dealer purchases** | SELECT EXTRACT(MONTH FROM buy.date) AS month,  SUM(buy.amount) AS monthly\_turnover  FROM buy  GROUP BY EXTRACT(MONTH FROM buy.date)  ORDER BY month; |
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| Wholesale | **To calculate monthly turnover from wholesales** | SELECT EXTRACT(MONTH FROM sell\_wholesale.time) AS month,  SUM(sell\_wholesale.amount) AS monthly\_turnover  FROM sell\_wholesale  GROUP BY EXTRACT(MONTH FROM sell\_wholesale.time)  ORDER BY month; |
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| Visiting\_shop and customer | **Track Customer Visit Frequency** | SELECT Customer.cust\_id, Customer.name, COUNT(Visiting\_shop.visiting) AS total\_visits FROM Customer JOIN Visiting\_shop ON Customer.cust\_id = Visiting\_shop.cust\_id GROUP BY Customer.cust\_id, Customer.name ORDER BY total\_visits DESC; |
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| Item | **To list items that have stock below the reorder level:** | SELECT item\_id, item\_description, stock, reorder\_level  FROM item  WHERE stock <= reorder\_level; |
|  | **To update the stock after a sale**: | UPDATE item  SET stock = stock - (SELECT quantity FROM salesDetails WHERE sale\_detail\_id = 'SALE\_DETAIL\_ID')  WHERE item\_id = (SELECT item\_id FROM salesDetails WHERE sale\_detail\_id = 'SALE\_DETAIL\_ID'); |
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| Item , salesDetails | **Track Item Frequency of Sales (To Get the Total quantity sold per item, showing which items sell most frequently )** | SELECT item.item\_id, item.item\_description,  SUM(salesDetails.quantity) AS total\_quantity\_sold  FROM item  JOIN salesDetails ON item.item\_id = salesDetails.item\_id  GROUP BY item.item\_id, item.item\_description  ORDER BY total\_quantity\_sold DESC; |
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| Customer, sell\_wholesale | **Track Wholesale Customer Payments To view the status of wholesale payments and amounts for each customer:** | SELECT Customer.cust\_id, Customer.name, sell\_wholesale.invoice\_no,  sell\_wholesale.amount, sell\_wholesale.status  FROM Customer  JOIN sell\_wholesale ON Customer.cust\_id = sell\_wholesale.custid  WHERE sell\_wholesale.status = 'pending'; |
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| Dealer ,payment | **Track Dealer Payments and Outstanding Balances(To View Payment and Remaining amounts for each delaer )** | SELECT dealer.dealer\_id, dealer.company\_name,  payment.amount AS payment\_made, dealer.remaining\_amount AS outstanding\_balance  FROM dealer  LEFT JOIN payment ON dealer.dealer\_id = payment.dealer\_id; |
|  | **To update the dealer’s remaining\_amount after a new payment:** | UPDATE dealer  SET remaining\_amount = remaining\_amount - (SELECT amount FROM payment WHERE payment\_id = 'PAYMENT\_ID')  WHERE dealer\_id = 'DEALER\_ID'; |