|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **DESCRIPTION** |
| Expense\_id | INT | Unique identifier for each expense. |
| Amount | DECIMAL (10,2) | Monetary value of the expense. |
| Date | DATE | Date the expense was incurred. |
| Category | VARCHAR (50) | Category or type of expense. |
| Description | VARCHAR (200) | Brief description of the expense. |
| Payment\_method | VARCHAR (50) | Method used to pay for the expense. |

1. **EXPENSE TABLE QUERY**

SE ExpenseTracker;

CREATE TABLE IF NOT EXISTS Expenses (

expense\_id INT AUTO\_INCREMENT PRIMARY KEY,

amount DECIMAL(10,2) NOT NULL,

date DATE NOT NULL,

category VARCHAR(50) NOT NULL,

description VARCHAR(200),

payment\_method VARCHAR(50)

);

SELECT \* FROM Expenses;

SELECT date, category, amount FROM Expenses;

SELECT \* FROM Expenses

WHERE date BETWEEN '2021-01-01' AND '2024-12-15';

SELECT \* FROM Expenses

WHERE category = 'Entertainment';

SELECT \* FROM Expenses

WHERE amount > 50;

SELECT \* FROM Expenses

WHERE amount > 75 AND category = 'Food';

SELECT \* FROM Expenses

WHERE category = 'Transportation' OR category = 'Groceries';

SELECT \* FROM Expenses

WHERE category != 'Rent';

SELECT \* FROM Expenses

ORDER BY amount DESC;

SELECT \* FROM Expenses

ORDER BY date DESC, category ASC;

1. **INCOME TABLE QUERY**

CREATE TABLE Income (

income\_id INT AUTO\_INCREMENT PRIMARY KEY,

amount DECIMAL(10,2) NOT NULL,

date DATE NOT NULL,

source VARCHAR(50) NOT NULL

);

SELECT \* FROM Expenses;

SELECT date, category, amount FROM Expenses;

SELECT \* FROM Expenses

WHERE date BETWEEN '2021-01-01' AND '2024-12-15';

SELECT \* FROM Expenses

WHERE category = 'Entertainment';

SELECT \* FROM Expenses

WHERE category = 'Entertainment';

SELECT \* FROM Expenses

WHERE amount > 50;

SELECT \* FROM Expenses

WHERE amount > 75 AND category = 'Food';

SELECT \* FROM Expenses

WHERE category = 'Transportation' OR category = 'Groceries';

SELECT \* FROM Expenses

WHERE category != 'Rent';

SELECT \* FROM Expenses

ORDER BY amount DESC;

SELECT \* FROM Expenses

ORDER BY date DESC, category ASC;

ALTER TABLE Income

ADD COLUMN category VARCHAR(50);

ALTER TABLE Income

DROP COLUMN source;

DROP TABLE Income;