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* Sude Ebrar Çat - 2007009007
* Erkin Alkan – 200709060
* Baran İşci – 200709054

2-

This dataset comes from a comprehensive Item Catalog for Animal Crossing New Horizons Housewares (ACNHH). The purpose of our project is to upgrade this game to next version or develop a new game. Because we are interested in video games and their design procedure. There is only one csv file exist. There are 3275 rows and 32 columns in our dataset. There are 27 non-numeric values.

<https://www.kaggle.com/datasets/jessicali9530/animal-crossing-new-horizons-nookplaza-dataset?select=housewares.csv>

<https://bitbucket.org/u200709007/dblab2023>

3-

1. What is the minimum "buy" price among all items in the "trade" table?
2. How many unique entries "item\_name" are there in the "items" table?
3. What is the minimum "kit\_cost" for items in a specific "catalog"?

4- What is the maximum "sell" price and the minimum "buy" price among all items in the "trade" table?

5- How many items in the "items" table have the "diy" (Do-It-Yourself)?

6- What is the minimum "miles\_price" for all items in the "trade" table?

7- What is the average "kit\_cost" of items in the "interactions" table when outdoor is "No"?

8- How many items in the "items" table have customization options for both "body" and "pattern"?

9- What is the sum of "sell" and the minimum "size" for items in the "interactions" table for a specific "outdoor" category?

10- What is the count of items with a specific "color\_1" in the "color" table for a certain "hha\_concept\_1"?

4-

A screenshot of a computer

Description automatically generated

USE mydb;

INSERT INTO color (color\_1, color\_2) VALUES ('Beige', 'Brown');

INSERT INTO trade (sell) VALUES (3200);

INSERT INTO source (source) VALUES ('Crafting');

INSERT INTO hha (hha\_concept\_1) VALUES ('music');

INSERT INTO pattern (pattern\_customize) VALUES ('No');

INSERT INTO interactions (interact, tag, speaker\_type, lightning\_type,outdoor, size, kit\_cost) VALUES ('Yes','Musical Instrument', 'Does not play music', 'No lighting','No', '1x1', 5);

INSERT INTO items (unique\_entry\_id, file\_name, item\_name, variation, body\_title, diy, body\_customize, version, catalog, variant\_id, internal\_id, hha\_hha\_id, color\_color\_id, trade\_trade\_id, pattern\_pattern\_id, source\_source\_id, interactions\_interactions\_id) VALUES ('EpywQXABBcv2dipsP', 'FtrAcorsticguitar\_Remake\_0\_0', 'acoustic guitar', 'Natural', 'Body', 'Yes', 'Yes', '1.0.0', 'Not for sale', '0\_0', 383,1,1,1,1,1,1);

5-

1. What is the minimum "buy" price among all items in the "trade" table?

SELECT MIN(buy) AS minimum\_price

FROM trade;

2- How many unique entries "item\_name" are there in the "items" table?

SELECT COUNT(DISTINCT item\_name) AS item\_name

FROM items;

1. What is the maximum "sell" price and the minimum "buy" price among all items in the "trade" table?

SELECT MIN(buy) AS buying\_price,

MAX(sell) AS selling\_price

FROM trade;

1. How many items in the "items" table have the "diy" (Do-It-Yourself)?

SELECT COUNT(diy) AS diy\_counter

FROM items

GROUP BY diy;

7- What is the average "kit\_cost" of items in the "interactions" table when outdoor is "No"?

SELECT AVG(kit\_cost) AS kit\_cost\_average

FROM interactions

WHERE outdoor = 'No';

6-

We have obtained a CSV file from Kaggle containing valuable data that we intend to load into our SQL database. We acquired the dataset from Kaggle, and it is currently in CSV format. We plan to use SQL's LOAD DATA or COPY statement, depending on the specific database management system (DBMS) we are using MySQL. The CSV file will be placed in a location accessible by the database server. Before loading the data, we will ensure that the target SQL database has a table with a compatible schema to accommodate the CSV data. The column names and data types will be matched to the corresponding fields in the CSV file. We will review the structure of the CSV file to map each column to its corresponding database table column. Special attention will be given to handle any data type mismatches or unique constraints. We will write a script using Python with pandas to read the CSV file and execute SQL queries to insert the data into the database. Post-loading, we will perform data validation to ensure the integrity and accuracy of the loaded data. We aim to seamlessly integrate the Kaggle dataset into our SQL database, ensuring data accuracy and maintaining database integrity.

7-

No, we do not plan to implement a front-end user interface for this project. We will create at least one view and one stored procedure with IN, OUT, and INOUT parameters. The view will be designed to bring certain columns in trade table, and the stored procedure will be designed to bring items which have speaker type as ‘does not have speaker type’ and lightning type as ‘no lightning’. This will ensure that the underlying database functionality is accessible and can be interacted with programmatically.

8-

Monster T7 20.3V

Nvidia Geforce RTX 3060 6 GB GDDR5

Intel i7 10th Gen 10750h 2.50 GHZ

32GB DDR4 RAM

Storage 1 TB SSD