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Project Report 4 for CSCI 440 - Database Systems
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QUERY 1

English Language Query:

For each customer who has a customer note mentioning a birthday, output the name, address, and relevant customer note. (The purpose of this transaction is to provide the client a list of customers who it can send birthday cards to.)

SQL Query:

```
SELECT Cx.Name, Cx.Line1, Cx.Line2, Cx.City, Cx.State, Cx.Zip, N.Note
FROM CUSTOMER AS Cx, CUSTOMER_NOTE AS N
WHERE Cx.ID = N.Customer_id AND N.Note LIKE '%b%day%';
```

Result Set:

Name	Line1	City	State	Zip	Note
Mary Frederick	2169 Masonic Drive	Glasgow	MT	59231	Birthday 10/29/1978
Billie Williams	2722 West Fork Street	Helena	MT	59601	BDAY 11/25

*Cx.Line2 was suppressed for the Result Set for neatness.

QUERY 2

English Language Query:

What are the sizes and corresponding prices for a given product name, here Precision Walnut Plaques? (The purpose of this query is obvious; a customer may ask the client such a question.)

SQL Query:

```
SELECT P.Name, O.SName, O.Price
FROM PRODUCT AS P, OFFERED_IN AS O
WHERE P.Name = 'Precision Walnut Plaques' AND P.SKU = O.PSKU;
```

Result Set:

Name	SName	Price
Precision Walnut Plaques	12 x 15	88
Precision Walnut Plaques	5 x 7	44
Precision Walnut Plaques	6 x 8	57
Precision Walnut Plaques	8 x 10	72

QUERY 3

English Language Query:

Output a list of Product Names that are made by a given vendor, here Crown Awards. (This query might be used to help determine how valuable a given vendor is to the client's operations, for example.)

SQL Query:

```
SELECT P.Name
```

```
FROM MAKES AS M, PRODUCT AS P
```

```
WHERE M.VName = 'Crown Awards' and M.PSKU = P.SKU;
```

Result Set:

Name
Genuine Walnut 45 Degree Bevel Plaques
Genuine Walnut Elliptical Round Corner Plaques
Genuine Walnut Elliptical Square Corner Plaques
Genuine Walnut Step Edge Plaques

QUERY 4

English Language Query:

Output customer names and dates from orders that have been delivered. (The purpose of this query is to help the client determine which packages have been delivered. In practice, the client would perhaps mostly likely select from a recent date range. Eg., WHERE...O.Date > '2019-11-18 00:00:00';)

SQL Query:

```
SELECT C.Name, O.Date
FROM CUSTOMER AS C, ORDERS AS O
WHERE C.ID=O.Customer_id AND O.Status='Delivered';
```

Name	Date
Robert Fisher	2012-12-11 17:50:07
Billie Williams	2015-05-26 13:15:44
Deborah McCain	2018-09-12 15:02:01
Amanda Andrzejewski	2017-10-10 21:47:12
Gloria Guevara	2014-08-21 03:53:19

QUERY 5

English Language Query:

Output vendor names and addresses of vendors who make wood products. (The client may use this query in determining how many of vendors he/she has that provide wood products.)

SQL Query:

```
SELECT DISTINCT M.VName, V.Line1, V.Line2, V.City, V.State, V.Zip
FROM MAKES AS M, VENDOR AS V, CATEGORY AS C, BELONGS_IN AS B
WHERE C.Parent_cat = 'Wood' AND C.Name = B.CName AND B.PSKU = M.PSKU AND
M.Vname = V.Name;
```

Result Set (w/ V.Line2 suppressed):

VName	Line1	City	State	Zip
Big Sky Wood Crafters	305 West Main Street	Laurel	MT	59044
Crown Awards	9 Skyline Drive	Hawthorne	NY	10532
Discount Mugs	12610 North West 115th Avenue	Miami	FL	33178
JDS Industries	1800 East 57th Street North	Sioux Falls	SD	57104
K2 Awards	4128 Jacque St	Richmond	VA	23230