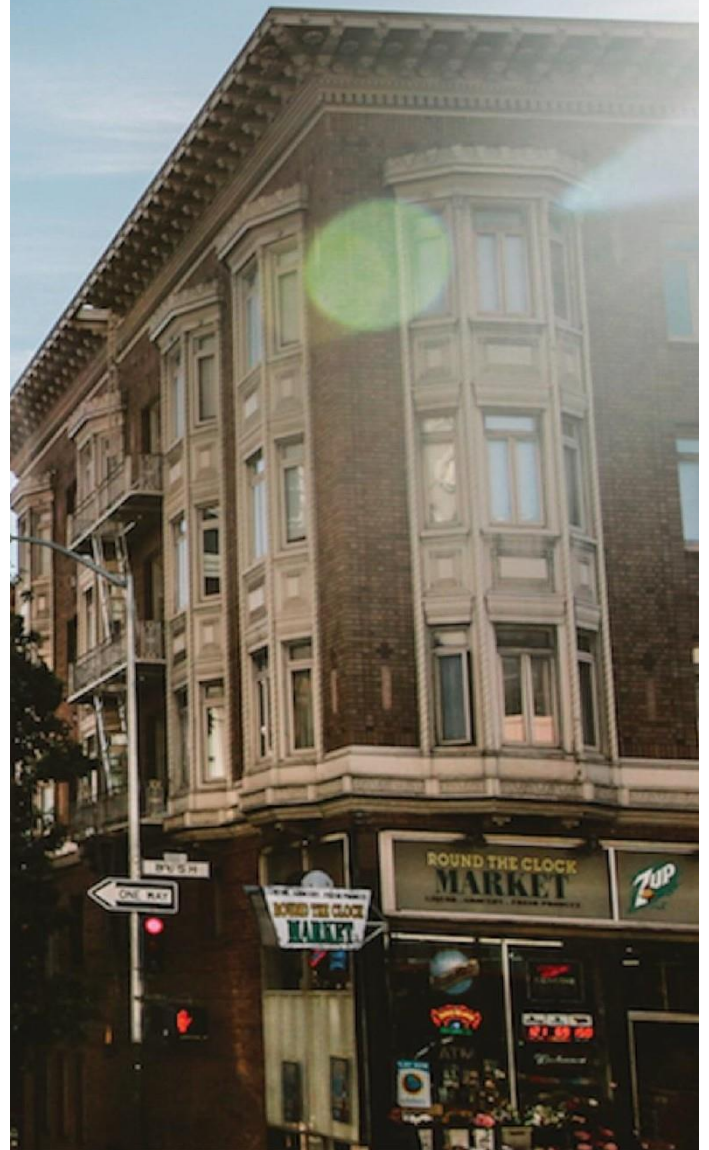


Proposal for a business providing toys for rent



OCTOBER 9

ABC Corp

Authored by- SHASHANK KUMAR

Business Proposal

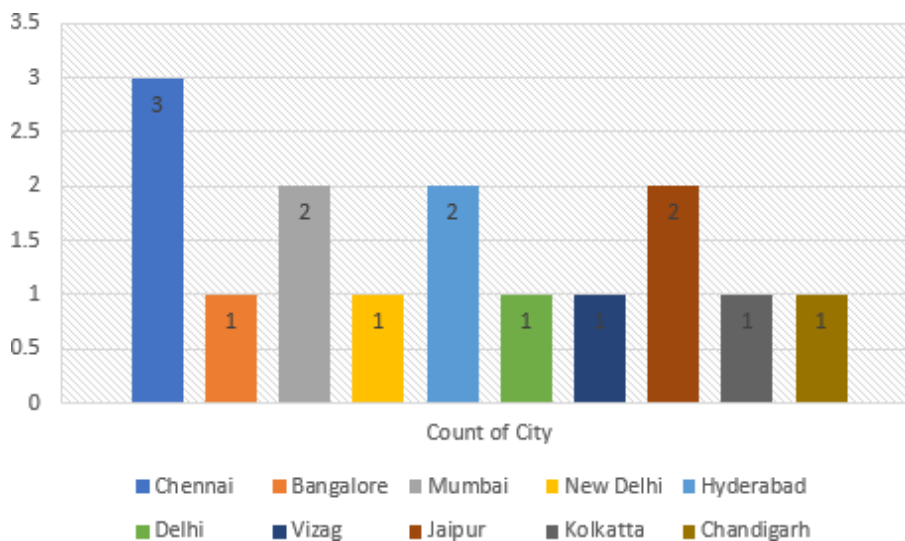
ABC Corp

As per Baby Toy Company LLP's recent award of a project to our company, we are providing the following proposal based on the vision provided by Mr. Harry Peter, the Chairman of the Company. In order to facilitate the rental of premium toys for middle-income families, we have examined the market for rental options.

In order to provide you with a better understanding of the market data we have on our hosted database servers, we are providing the following statistics with graphs.

Please note that this business proposal analysis you are presenting to you contains some technical details. If you are unfamiliar with these details, please refer to the graphs. Please feel free to contact us via our website www.abc.corp or directly by emailing me at shashank@abc.corp if you have any questions.

1) Display the Customer Count Based on the City



```

1  /*#####Karma-Yogi#####
2  Developer Name: Manwender Pratap Singh
3  Date: October 8, 2023
4  Description: MIT - Data Base Management & SQL - Micro Project
5  #####*/
6
7  •  USE MIT;
8
9  /* 1) Display the Customer Count Based on the City*/
10 •  SELECT
11      c.City,
12      COUNT(*) AS `Count of City`
13  FROM
14      `customer` AS c
15  GROUP BY
16      c.City;

```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	City	Count of City			
▶	Chennai	3			
	Bangalore	1			
	Mumbai	2			
	New Delhi	1			
	Hyderabad	2			
	Delhi	1			
	Vizag	1			
	Jaipur	2			
	Kolkatta	1			
	Chandigarh	1			

2) Display the customer who has availed rental more than two toys currently

Kanishk	Alvyna	Jommy
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```
18  /* 2) Display the customer who has availed rental more than two toys currently*/
19  •  SELECT
20      c.`customer_name`
21  FROM
22      (
23          SELECT
24              tr.`customer_id`,
25              COUNT(tr.`customer_id`) AS `Count_Of_Toys`
26          FROM
27              `toy_rental` AS tr
28          GROUP BY
29              `customer_id`
30      ) AS tr_sub
31  JOIN
32      `customer` AS c
33  ON
34      tr_sub.`customer_id` = c.`customer_id`
35  WHERE
36      tr_sub.`Count_Of_Toys` > 2;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
customer_name			
▶ Kanishk			
Alvyna			
Jommy			

3) Display the toys which were not at all rented out and display toy names in the ascending order of the toy id.

First Builders	Fill and Spill Coin	Posting Challenge	SICK Science	Count Colors Band
----------------	---------------------	-------------------	--------------	-------------------

```
38  /* 3) Display the toys which were not at all rented out and display toy names in the ascending order of the toy id.*/
39  •  SELECT
40      t.`toy_name` AS `Toy Name`
41  FROM
42      `toy` AS t
43  LEFT JOIN
44      `toy_rental` AS tr
45  ON
46      t.`toy_id` = tr.`toy_id`
47  WHERE
48      tr.`rental_id` IS NULL AND
49      tr.`customer_id` IS NULL
50  ORDER BY
51      t.`toy_id`;
52
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Toy Name			
► First Builders			
Fill and Spill Coin			
Posting Challenge			
SICK Science			
Count Colors Band			

4) Display the toys which was rented out on 20/05/2020

Rental Id	Customer Id	Toy Id	Rental Start Date	Rental End Date	Rental Amount Per Day	Total Amount	Fine	Status
2516	1012	5203	Wednesday, 20 May, 2020	Saturday, 30 May, 2020	25	250	NULL	Received

```
53      /* 4) Display the toys which was rented out on 20/05/2020*/
54 •    SELECT
55         tr.*
56     FROM
57         `toy_rental` AS tr
58     WHERE
59         tr.`rental_start_date` = '2020-05-20';
```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	rental_id	customer_id	toy_id	rental_start_date	rental_end_date	rental_amount_per_day	total_amount	fine	status
▶	00002516	1012	00005203	2020-05-20	2020-05-30	25.00	250.00	NULL	Received
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

5) Fetch the toys which were on rent for maximum duration

a. "Brick Buster" is the toy were rented maximum duration

```
61      /* 5) Fetch the toys which were on rent for maximum duration*/
62 •    SELECT
63         t.`toy_name` AS `Toy Name`
64     FROM
65         `toy` AS t
66     JOIN
67     (
68         SELECT
69             DATEDIFF(
70                 tr.`rental_end_date`,
71                 tr.`rental_start_date`
72             ) AS `ElapsedTime`,
73             tr.`toy_id`
74         FROM
75             `toy_rental` AS tr
76         ORDER BY
77             `ElapsedTime` DESC
78         LIMIT 1
79     ) AS md
80     ON
81         md.`toy_id` = t.`toy_id`;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Toy Name			
Brick Buster			

6) Display the Rental details of a customer "John"

Rental Id	Customer Id	Toy Id	Rental Start Date	Rental End Date	Rental Amount Per Day	Total Amount	Fine	Status
2409	1004	5206	Thursday, 20 February, 2020	Wednesday, 25 March, 2020	25	1525	100	Received

```

83  /* 6) Display the Rental details of a customer "John"*/
84  •  SELECT
85      *
86  FROM
87      `toy_rental` AS tr
88  WHERE
89      tr.`customer_id` = (
90          SELECT
91              c.`customer_id`
92          FROM
93              `customer` AS c
94          WHERE
95              c.`customer_name` = 'John'
96      );

```

rental_id	customer_id	toy_id	rental_start_date	rental_end_date	rental_amount_per_day	total_amount	fine	status
00002409	1004	00005206	2020-02-20	2020-03-25	25.00	1525.00	100.00	Received

7) Fetch the user information who have not returned the toys after the rental period

Customer Id	Customer Name	Password	City	State	Zip	Country
1012	Jommy	e812a974dc62e424e8765835ee11506cb64700c5	Kolkatta	WestBengal	700001	India

```

98  /* 7) Fetch the user information who have not returned the toys after the rental period*/
99  •  SELECT
100      c.`customer_id`,
101      c.`customer_name`,
102      sha1(c.`password`) AS `password`,
103      c.`city`,
104      c.`state`,
105      c.`zip`,
106      c.`country`
107  FROM
108      `customer` AS c join `toy_rental` AS tr
109  ON
110      c.`customer_id` = tr.`customer_id`
111  WHERE
112      tr.`status` = 'Pending';
113

```

customer_id	customer_name	password	city	state	zip	country
1012	Jommy	e812a974dc62e424e8765835ee11506cb64700c5	Kolkatta	WestBengal	700001	India

8) Identify the customers who have opted for more than 1 toy for rental

Customer Id	Customer Name	Password	City	State	Zip	Country
1001	Kanishk	afba137331d0450d9fb52df738268407e0a594a4	Chennai	TamilNadu	600075	India
1002	Krithick	5265528a149fa9d316f7f0ba33ae41ce6815f84c	Bangalore	Karnataka	560001	India
1006	Kishore	51331cdea4c0b1d15bfd05c796f1c8c625c44617	Chennai	TamilNadu	600075	India
1010	Alvyna	b7e1752916788e8e01aef88d1439cd709fc9ace6	Vizag	Andhra	530013	India
1012	Jommy	e812a974dc62e424e8765835ee11506cb64700c5	Kolkatta	WestBengal	700001	India

```

114      /* 8) Identify the customers who have opted for more than 1 toy for rental*/
115      •  SELECT
116          tr_sub.`customer_id`,
117          c.`customer_name`,
118          sha1(c.`password`) AS `password`,
119          c.`city`,
120          c.`state`,
121          c.`zip`,
122          c.`country`
123      FROM
124      (
125          SELECT
126              tr.`customer_id`,
127              COUNT(tr.`customer_id`) AS `toys`
128          FROM
129              `toy_rental` AS tr
130          GROUP BY
131              tr.`customer_id`
132      ) AS tr_sub
133      JOIN
134          `customer` AS c
135      ON
136          tr_sub.`customer_id` = c.`customer_id`
137      WHERE
138          tr_sub.`toys` > 1;
139

```

Result Grid							
	customer_id	customer_name	password	city	state	zip	country
▶	1001	Kanishk	afba137331d0450d9fb52df738268407e0a594a4	Chennai	TamilNadu	600075	India
	1002	Krithick	5265528a149fa9d316f7f0ba33ae41ce6815f84c	Bangalore	Karnataka	560001	India
	1006	Kishore	51331cdea4c0b1d15bfd05c796f1c8c625c44617	Chennai	TamilNadu	600075	India
	1010	Alvyna	b7e1752916788e8e01aef88d1439cd709fc9ace6	Vizag	Andhra	530013	India
	1012	Jommy	e812a974dc62e424e8765835ee11506cb64700c5	Kolkatta	WestBengal	700001	India

9) Display the customer details who has availed electronic toys for rental.

Note: sort the output based on customer_id

Customer Id	Customer Name	City
1001	Kanishk	Chennai
1004	John	New Delhi
1010	Alvyna	Vizag
1012	Jommy	Kolkatta

```
140  /* 9) Display the customer details who has availed electronic toys for rental. Note: sort the output based on customer_id*/
141  •  SELECT
142      c.`customer_id`,
143      c.`customer_name`,
144      c.`city`
145  FROM
146      `customer` AS c
147  JOIN
148      `toy_rental` AS tr
149  ON
150      c.`customer_id` = tr.`customer_id`
151  JOIN
152      toy AS t
153  ON
154      tr.`toy_id` = t.`toy_id`
155  WHERE
156      t.`toy_type` = 'Electronics'
157  ORDER BY
158      c.`customer_id`;
159
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
	customer_id	customer_name	city
▶	1001	Kanishk	Chennai
	1004	John	New Delhi
	1010	Alvyna	Vizag
	1012	Jommy	Kolkatta

- 10) Display the ids of top 2 customers in descending order of total revenue generated for each customer
- a. “Alvyna” and “Kanishk” are top 2 customers.

```
160  /* 10) Display the ids of top 2 customers in descending order of total revenue generated for each customer*/
161  •  SELECT
162      c.`customer_name` AS `Customer Name`
163  FROM
164      (
165          SELECT
166              tr.`customer_id`,
167              SUM(tr.`total_amount`) AS `total_amount`
168          FROM
169              `toy_rental` AS tr
170          GROUP BY
171              tr.`customer_id`
172          ORDER BY
173              `total_amount` DESC
174          LIMIT 2
175      ) AS tr_sub
176  JOIN
177      customer AS c
178  ON
179      tr_sub.`customer_id` = c.`customer_id`;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Customer Name			
▶ Alvyna			
Kanishk			