

Data Dictionary

MODEL			
Field	Data Type	Description	Example Data
MODEL_ID (PK)	INT	The unique ID for each model (required)	500
NAME	VARCHAR(100)	Name of the model	Huracan Coupe
ENGINE_TYPE	VARCHAR(100)	Type of engine the model uses	V10
FUEL_CONSUMPTION	VARCHAR(100)	Fuel Consumption of that model	14.5 l/100 km
TOP_SPEED	VARCHAR(100)	Top speed of that model	>325 km/h

CAR			
Field	Data Type	Description	Example Data
VIN (PK)	VARCHAR(100)	The unique VIN for each car (required)	SCBGE11RXBLA13272
ASK_PRICE	INT(11)	The ask price of each car	219800
SALE_PRICE	INT(11)	The price each car was sold at	220837
LIST_DATE	DATE	The date the car was listed for sale	2018-04-25
SALE_DATE	DATE	The date the car was sold	2018-04-25
YEAR	YEAR(4)	The year the car was made	2018
EXT_COLOR	TEXT	The color of the exterior of the car	Windsor Blue
INT_COLOR	TEXT	The color of the interior of the car	Beluga
MODEL_ID	INT(11)	The ID of the type of model of the car	550
SALESPERSON_ID (FK)	INT(11)	The unique ID of the salesperson that sold the car.	9
DEALERSHIP_ID (FK)	INT(11)	The unique ID of the dealership from where the car was sold.	100

SALESPERSON			
Field	Data Type	Description	Example Data
SALESPERSON_ID (PK)	INT(11)	The unique ID of the salesperson.	1
FNAME	VARCHAR(100)	The first name of the salesperson	Allan
LNAME	VARCHAR(100)	The last name of the salesperson	Zhu
PHONE	VARCHAR(100)	The phone number of the salesperson	82 (2) 2553 7713
MOBILE	VARCHAR(100)	The mobile number of the salesperson	852 9374 7713
EMAIL	VARCHAR(100)	The salesperson's email ID	allan_zhu@lamborghini.com
DEALERSHIP_ID (FK)	INT(11)	The dealership ID of the dealership the salesperson works with	104

DEALERSHIP			
Field	Data Type	Description	Example Data
DEALERSHIP_ID (PK)	INT(11)	The Unique ID of the dealership	100
NAME	VARCHAR(100)	The name of the dealership	Lamborghini Seoul
WEBSITE	VARCHAR(100)	The link to the dealership's website	https://lamborghini-seoul.com/en
LOCATION	VARCHAR(100)	The location of the dealership	Seoul, South Korea
YEAR	YEAR(4)	The year of establishment of the dealership.	2007

phpMyAdmin

ayaanh

Salesperson

Table structure

Relation view

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	salesperson_id	int(11)	utf8_bin		No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
2	fname	varchar(100)	utf8_bin		No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
3	lname	varchar(100)	utf8_bin		No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
4	phone	varchar(100)	utf8_bin		No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
5	mobile	varchar(100)	utf8_bin		No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
6	email	varchar(100)	utf8_bin		No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
7	dealership_id	int(11)			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More

Check all With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#) [Add to central columns](#) [Remove from central columns](#)

[Print view](#) [Propose table structure](#) [Track table](#) [Move columns](#) [Improve table structure](#)

Add 1 column(s) after dealership_id [Go](#)

+ Indexes

Information

Space usage		Row statistics	
Data	16 KiB	Format	dynamic
Index	16 KiB	Collation	utf8_bin
Total	32 KiB	Creation	Apr 03, 2019 at 05:56 PM
		Last update	Apr 01, 2019 at 06:20 PM

Console

Showing rows 0 - 10 (11 total, Query took 0.0012 seconds.)

```
SELECT * FROM `SALESPERSON`
```

	salesperson_id	fname	lname	phone	mobile	email	dealership_id
<input type="checkbox"/>	1	Allan	Zhu	82 (2) 2553 7713	852 9374 7713	allan_zhu@lamborghini.com	104
<input type="checkbox"/>	2	Bibin	Khalil	702 44114411	974 64174841	bkhilil@lamborghini.com	102
<input type="checkbox"/>	3	Ameeshi	Goel	888 294 1133	310 384 3843	lobogo@lamborghini.com	101
<input type="checkbox"/>	4	Abbey	Mui	82 (2) 2553 7713	852 9384 3334	coffee@lamborghini.com	104
<input type="checkbox"/>	5	Minji	Kim	82 (2) 2553 7713	852 8986 5476	m_kim@lamborghini.com	104
<input type="checkbox"/>	6	Kelly	Mazur	888 294 1133	310 837 2039	kmazur@lamborghini.com	101
<input type="checkbox"/>	7	Nadia	Howe	702 44114411	974 93843439	nhowe@lamborghini.com	102
<input type="checkbox"/>	8	Steve	Collepay	888 294 1133	310 823 3402	salepro@lamborghini.com	101
<input type="checkbox"/>	9	Sebastian	Craig	39 (0)30 8866 7888	39 (0)30 8866 1254	sc@lamborghini.com	100
<input type="checkbox"/>	10	Tiffany	Chen	39 (0)30 8866 7888	39 (0)30 4356 9384	design@lamborghini.com	100
<input type="checkbox"/>	11	Veronika	Wagner	39 (0)30 8866 7888	39 (0)30 3947 3984	vw@lamborghini.com	100

phpMyAdmin

ayaanh

CAR

DEALERSHIP

MODEL

SALESPERSON

information_schema

model_ID

name

engine_type

fuel_consumption

top_speed

Space usage

Data 16 KiB

Index 0 B

Total 16 KiB

Row statistics

Format dynamic

Collation utf8_bin

Creation Apr 03, 2019 at 05:56 PM

Last update Apr 01, 2019 at 06:19 PM

Console

pawn-cmuis.net

Database Project

Server: localhost > Database: ayaanh > Table: MODEL

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

Table structure Relation view

Name Type Collation Attributes Null Default Extra Action

1 model_ID int(11) No None Change Drop Primary Unique Index Spatial Fulltext Distinct values More

2 name varchar(100) utf8_bin No None Change Drop Primary Unique Index Spatial Fulltext Distinct values More

3 engine_type varchar(100) utf8_bin No None Change Drop Primary Unique Index Spatial Fulltext Distinct values More

4 fuel_consumption varchar(100) utf8_bin No None Change Drop Primary Unique Index Spatial Fulltext Distinct values More

5 top_speed varchar(100) utf8_bin No None Change Drop Primary Unique Index Spatial Fulltext Distinct values More

Check all With selected: Browse Change Drop Primary Unique Index Add to central columns Remove from central columns

Print view Propose table structure Track table Move columns Improve table structure

Add 1 column(s) after top_speed Go

+ Indexes

Information

Model Structure:

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	model_ID	int(11)		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More
2	name	varchar(100)	utf8_bin	No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More
3	engine_type	varchar(100)	utf8_bin	No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More
4	fuel_consumption	varchar(100)	utf8_bin	No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More
5	top_speed	varchar(100)	utf8_bin	No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More

Table Information:

Space usage		Row statistics	
Data	16 KiB	Format	dynamic
Index	0 B	Collation	utf8_bin
Total	16 KiB	Creation	Apr 03, 2019 at 05:56 PM
		Last update	Apr 01, 2019 at 06:19 PM

Showing rows 0 - 5 (6 total, Query took 0.0005 seconds.)

```
SELECT * FROM `MODEL`
```

	model_ID	name	engine_type	fuel_consumption	top_speed
<input type="checkbox"/>	500	URUS	V8 bi-turbo	12.3 l/100 km	305 km/h
<input type="checkbox"/>	550	Huracan Coupe	V10	14.5 l/100 km	>325 km/h
<input type="checkbox"/>	551	Huracan Spyder	V10	14.6 l/100 km	324 km/h
<input type="checkbox"/>	552	Huracan Performante	V10	14.6 l/100 km	324 km/h
<input type="checkbox"/>	702	Aventador S Coupe	V12	16.9 l/100 km	350 km/h
<input type="checkbox"/>	703	Aventador S Roadster	V12	16.9 l/100 km	350 km/h

Sort by key: None

+ Options

With selected: Edit Copy Delete Check all

Query results operations

Print view Export Display chart Create view

Bookmark this SQL query

Console Let every user access this bookmark

pawn-cmuis.net

Database Project

Server: localhost > Database: ayaanh > Table: DEALERSHIP

phpMyAdmin

Recent Favorites

ayaanh

- New
- CAR
- DEALERSHIP
- MODEL
- SALESPERSON

information_schema

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	dealership_id	int(11)	utf8_bin		No	None		More
2	name	varchar(100)	utf8_bin		No	None		More
3	website	varchar(100)	utf8_bin		No	None		More
4	location	varchar(100)	utf8_bin		No	None		More
5	year	year(4)			No	None		More

Check all With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#) [Add to central columns](#) [Remove from central columns](#)

[Print view](#) [Propose table structure](#) [Track table](#) [Move columns](#) [Improve table structure](#)

Add 1 column(s) after year Go

+ Indexes

Information

Space usage		Row statistics	
Data	16 KiB	Format	dynamic
Index	0 B	Collation	utf8_bin
Total	16 KiB	Creation	Apr 03, 2019 at 05:56 PM
		Last update	Apr 01, 2019 at 06:20 PM

Console

pawn-cmuis.net

Database Project

Server: localhost / Database: ayaanh / Table: DEALERSHIP

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

Showing rows 0 - 3 (4 total, Query took 0.0004 seconds.)

```
SELECT * FROM `DEALERSHIP`
```

Show all Number of rows: 25 Filter rows: Search this table

Sort by key: None

	dealership_id	name	website	location	year
<input type="checkbox"/>	100	Lamborghini Seoul	https://lamborghini-seoul.com/en	Seoul, South Korea	2007
<input type="checkbox"/>	101	Lamborghini Milano	https://lamborghini-milano.com/it	Milano, Italy	1982
<input type="checkbox"/>	102	Lamborghini Miami	https://lamborghini-miami.com/en	North Miami Beach, Florida	1990
<input type="checkbox"/>	104	Lamborghini Las Vegas	http://www.lamborghini-lasvegas.com/	Las Vegas, Nevada	2005

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table

Query results operations

Print view Export Display chart Create view

Bookmark this SQL query

Label: Let every user access this bookmark

Console

The screenshot shows the phpMyAdmin interface for the 'DEALERSHIP' table. The table has columns: dealership_id, name, website, location, and year. The data includes four entries for Lamborghini dealerships in Seoul, Milano, Miami, and Las Vegas, with years ranging from 1982 to 2007. The interface includes a sidebar with database schema, a top navigation bar with various tabs like Browse, Structure, SQL, and Operations, and a bottom section for bookmarking the query.

	dealership_id	name	website	location	year
<input type="checkbox"/>	100	Lamborghini Seoul	https://lamborghini-seoul.com/en	Seoul, South Korea	2007
<input type="checkbox"/>	101	Lamborghini Milano	https://lamborghini-milano.com/it	Milano, Italy	1982
<input type="checkbox"/>	102	Lamborghini Miami	https://lamborghini-miami.com/en	North Miami Beach, Florida	1990
<input type="checkbox"/>	104	Lamborghini Las Vegas	http://www.lamborghini-lasvegas.com/	Las Vegas, Nevada	2005

phpMyAdmin

ayaanh

CAR

DEALERSHIP

MODEL

SALESPERSON

information_schema

Server: localhost | Database: ayaanh | Table: CAR

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

+ Options

vin ask_price sale_price list_date sale_date year ext_color int_color model_id salesperson_id dealership_id

<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13261	219800	215000	2018-01-01	2018-01-01	2017	Havana	Beluga	550	1	104
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13262	219800	211789	2018-01-01	2018-01-01	2017	Granite	Magnolia - Dark Stained Burr Walnut	550	2	102
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13263	219800	215000	2018-01-01	2018-01-02	2017	Granite	Magnolia - Dark Stained Burr Walnut	550	2	102
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13264	219800	218000	2018-01-01	2018-01-03	2018	Havana	Magnolia - Dark Stained Burr Walnut	550	1	104
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13265	219800	215000	2018-01-01	2018-01-04	2018	Moonbeam	Magnolia - Chestnut	550	1	104
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13266	219800	215282	2018-01-01	2018-01-05	2018	Windsor Blue	Magnolia - Chestnut	550	1	104
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13267	219800	220567	2018-01-01	2018-01-01	2018	Windsor Blue	Beluga	550	1	104
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13268	219800	220000	2018-01-01	2018-01-01	2018	St James Red (Solid)	Beluga	550	1	104
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13269	219800	215930	2018-01-01	2018-01-01	2018	Windsor Blue	Magnolia - Dark Stained Burr Walnut	550	1	104
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13270	219800	215678	2018-01-01	2018-01-01	2018	Blue Crystal	Magnolia - Dark Stained Burr Walnut	550	1	104
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13271	219800	215999	2018-01-01	2018-01-01	2018	Blue Crystal	Magnolia - Dark Stained Burr Walnut	550	2	102
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13272	219800	220837	2018-04-25	2018-04-25	2018	Windsor Blue	Beluga	550	9	100
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13273	219800	220000	2018-04-25	2018-04-26	2018	Blue Crystal	Magnolia - Dark Stained Burr Walnut	550	9	100
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13274	219800	220846	2018-04-25	2018-04-25	2018	Blue Crystal	Magnolia - Dark Stained Burr Walnut	550	1	104
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13275	219800	220474	2018-04-25	2018-04-25	2018	Blue Crystal	Magnolia - Dark Stained Burr Walnut	550	2	102
<input type="checkbox"/>	Edit	Copy	Delete	SCBGE11RXBLA13276	219800	224000	2018-04-25	2018-04-25	2018	Blue Crystal	Linen	550	4	104

Console...

phpMyAdmin

Database Project

Server: localhost / Database: ayaanh / Table: CAR

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	vin 🚗	varchar(100)	utf8_bin		No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
2	ask_price	int(11)			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
3	sale_price	int(11)			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
4	list_date	date			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
5	sale_date	date			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
6	year	year(4)			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
7	ext_color	text	utf8_bin		No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
8	int_color	text	utf8_bin		No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
9	model_id	int(11)			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
10	salesperson_id 🚗	int(11)			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
11	dealership_id 🚗	int(11)			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More

Check all With selected: Browse Change Drop Primary Unique Index Add to central columns Remove from central columns

Print view Propose table structure Track table Move columns Improve table structure

Add 1 column(s) after dealership_id Go

+ Indexes

Information

Space usage		Row statistics	
Data	80 KiB	Format	dynamic
Index	32 KiB	Collation	utf8_bin
Total	112 KiB	Creation	Apr 03, 2019 at 05:56 PM
		Last update	Apr 03, 2019 at 05:56 PM

Console

Database Project Database Lab (Part 2 of 2) pawn-cmuis.net / localhost / ayaanh | phpMyAdmin 4.5.4.1deb2ubuntu2.1

Server: localhost > Database: ayaanh > Table: CAR

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 24 (500 total, Query took 0.0008 seconds.)

```
SELECT ROUND(AVG(sale_price),2) AS 'Average Sales Price' FROM CAR
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Sort by key: None

+ Options Average Sales Price
240330.66

Query results operations

Print view Export Display chart Create view

Bookmark this SQL query

Label: Let every user access this bookmark

Console

Bookmark this SQL query

The screenshot shows the phpMyAdmin interface for a database named 'ayaanh'. On the left, a tree view lists tables: 'CAR', 'DEALERSHIP', 'MODEL', 'SALESPERSON', and 'information_schema'. The 'CAR' table is selected, showing its columns: 'New', 'ask_price', 'dealership_id', 'ext_color', 'int_color', 'list_date', 'model_id', 'salesperson_id', 'sale_date', 'sale_price', 'vin', and 'year'. A warning message at the top states: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.' Below this, a green bar indicates: 'Showing rows 0 - 24 (500 total, Query took 0.0008 seconds.)'. A SQL query is displayed: 'SELECT ROUND(AVG(sale_price),2) AS 'Average Sales Price' FROM CAR'. The result of this query, '240330.66', is shown below. Further down, there are sections for 'Query results operations' (Print view, Export, Display chart, Create view) and 'Bookmark this SQL query' (with a 'Label' input field and a 'Let every user access this bookmark' checkbox). At the bottom, there is a 'Console' section and a 'Bookmark this SQL query' button.

Database Project Database Lab (Part 2 of 2) pawn-cmuis.net / localhost / ayaanh / CAR | phpMyAdmin 4.5.4.1deb2ubuntu2.1

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 24 (500 total, Query took 0.0009 seconds.)

```
SELECT ROUND((AVG(sale_price)-AVG(ask_price)),2) AS 'Average difference in selling and asking price' FROM CAR
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Sort by key: None

+ Options Average difference in selling and asking price
1811.56

Query results operations

Print view Export Display chart Create view

Bookmark this SQL query

Label: Let every user access this bookmark

Console

Bookmark this SQL query

The screenshot shows the phpMyAdmin interface for a database named 'ayaanh'. On the left, there's a tree view of tables: 'CAR', 'DEALERSHIP', 'MODEL', 'SALESPERSON', and 'information_schema'. The 'CAR' table is selected, and its structure is visible with columns like 'ext_color', 'int_color', 'list_date', etc. A query has been run on the 'CAR' table to calculate the average difference between 'sale_price' and 'ask_price', resulting in a value of 1811.56. Below the results, there are options to print, export, or display the data as a chart. There are also buttons for bookmarking the query and a console at the bottom.

Database Project Database Lab (Part 2 of 2) pawn-cmuis.net / localhost / ayaanh | phpMyAdmin 4.5.4.1deb2ubuntu2.1

phpMyAdmin

Recent Favorites

ayaanh

- CAR**
 - Columns
 - New
 - ask_price
 - dealership_id
 - ext_color
 - int_color
 - list_date
 - model_id
 - salesperson_id
 - sale_date
 - sale_price
 - vin
 - year
- Indexes**

DEALERSHIP

- Columns
- New
- dealership_id
- location
- name
- website
- year

Indexes

MODEL

- Columns
- New
- engine_type
- fuel_consumption
- model_id

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 3 (4 total, Query took 0.0029 seconds.)

```
SELECT ROUND(AVG(CAR.sale_price),2) AS 'Average Sale Price by Dealership', DEALERSHIP.location AS 'Dealership' FROM CAR INNER JOIN DEALERSHIP ON CAR.dealership_id = DEALERSHIP.dealership_id GROUP BY DEALERSHIP.location ORDER BY AVG(CAR.ask_price)
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table

Sort by key: None

+ Options

Average Sale Price by Dealership	Dealership
204824.51	Seoul, South Korea
226946.81	Las Vegas, Nevada
255729.49	Milano, Italy
266855.91	North Miami Beach, Florida

Show all Number of rows: 25 Filter rows: Search this table

Query results operations

Print view Export Display chart Create view

Bookmark this SQL query

Label: Let every user access this bookmark
 Console

Database Project Database Lab (Part 2 of 2) pawn-cmuis.net / localhost / ayaanh / DEALERSHIP | phpMyAdmin 4.5.4.1deb2u...

phpMyAdmin

Recent Favorites

ayaanh

- CAR**
 - Columns
 - Indexes
- DEALERSHIP**
 - Columns
 - Indexes
- MODEL**
 - Columns

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 3 (4 total, Query took 0.0029 seconds.)

```
SELECT ROUND(AVG(CAR.sale_price-CAR.ask_price),2) AS 'Average Difference in Sales and Ask Price', DEALERSHIP.location AS 'Dealership' FROM CAR INNER JOIN DEALERSHIP ON CAR.dealership_id = DEALERSHIP.dealership_id GROUP BY DEALERSHIP.location ORDER BY AVG(CAR.ask_price)
```

Show all Number of rows: 25 Filter rows: Search this table

Sort by key: None

+ Options

Average Difference in Sales and Ask Price	Dealership
-3554.96	Seoul, South Korea
-184.89	Las Vegas, Nevada
4220.95	Milano, Italy
5298.70	North Miami Beach, Florida

Show all Number of rows: 25 Filter rows: Search this table

Query results operations

Print view Export Display chart Create view

Bookmark this SQL query

Label: Let every user access this bookmark

Console

Database Project Database Lab (Part 2 of 2) pawn-cmuis.net / localhost / ayaanh / DEALERSHIP | phpMyAdmin 4.5.4.1deb2u...

phpMyAdmin

Recent Favorites

ayaanh

- CAR**
 - Columns
 - New
 - ask_price
 - dealership_id
 - ext_color
 - int_color
 - list_date
 - model_id
 - salesperson_id
 - sale_date
 - sale_price
 - vin
 - year
- Indexes**

DEALERSHIP

- Columns
- New
- dealership_id
- location
- name
- website
- year

MODEL

- Columns
- New
- engine_type
- fuel_consumption
- model_id

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 3 (4 total, Query took 0.0027 seconds.)

```
SELECT ROUND(AVG(DATEDIFF(sale_date,list_date)),2) AS 'Average time on Market', DEALERSHIP.location AS 'Dealership' FROM CAR INNER JOIN DEALERSHIP ON CAR.dealership_id = DEALERSHIP.dealership_id GROUP BY DEALERSHIP.location ORDER BY AVG(CAR.ask_price)
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table

Sort by key: None

+ Options

Average time on Market	Dealership
21.49	Seoul, South Korea
10.80	Las Vegas, Nevada
4.71	Milano, Italy
1.49	North Miami Beach, Florida

Show all Number of rows: 25 Filter rows: Search this table

Query results operations

Print view Export Display chart Create view

Bookmark this SQL query

Label: Let every user access this bookmark
 Console

Homework #5 Database Lab (Part 2 of 2) pawn-cmuis.net / localhost / ayaanh | phpMyAdmin 4.5.4.1deb2ubuntu2.1

Structure **SQL** **Search** **Query** **Export** **Import** **Operations** **Routines** **Events** **Triggers** **Tracking** **More**

```
SELECT COUNT(CAR.sale_price) AS 'Total Cars Sold', DEALERSHIP.location AS 'Dealership', MODEL.name AS 'Model' FROM CAR INNER JOIN DEALERSHIP ON CAR.dealership_id = DEALERSHIP.dealership_id INNER JOIN MODEL ON CAR.model_id = MODEL.model_ID GROUP BY CAR.model_ID, CAR.dealership_id ORDER BY `Dealership` ASC
```

Show all Number of rows: 25 Filter rows: Search this table

Profiling [Edit inline] [Explain SQL] [Create PHP code] [Refresh]

Total Cars Sold	Dealership	Model
8	Las Vegas, Nevada	Huracan Spyder
116	Las Vegas, Nevada	Huracan Performante
9	Las Vegas, Nevada	Aventador S Coupe
15	Las Vegas, Nevada	Huracan Coupe
33	Las Vegas, Nevada	URUS
20	Las Vegas, Nevada	Aventador S Roadster
52	Milano, Italy	Huracan Spyder
33	Milano, Italy	Aventador S Coupe
61	Milano, Italy	URUS
32	Milano, Italy	Huracan Performante
2	Milano, Italy	Huracan Coupe
29	Milano, Italy	Aventador S Roadster
14	North Miami Beach, Florida	URUS
11	North Miami Beach, Florida	Aventador S Roadster
1	North Miami Beach, Florida	Huracan Spyder
5	North Miami Beach, Florida	Huracan Performante
4	North Miami Beach, Florida	Huracan Coupe
8	North Miami Beach, Florida	Aventador S Coupe
5	Seoul, South Korea	Aventador S Coupe
34	Seoul, South Korea	Huracan Performante
2	Seoul, South Korea	Huracan Coupe
6	Seoul, South Korea	Huracan Spyder

Console

Homework #5 Database Lab (Part 2 of 2) pawn-cmuis.net Pinterest (HRR / India) SQL COUNT() with DISTINCT - w3resource +

Server: localhost Database: ayaanh Table: DEALERSHIP

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 3 (4 total, Query took 0.0051 seconds.) [Dealership: LAS VEGAS, NEVADA... - SEOUL, SOUTH KOREA...]

```
SELECT COUNT(CAR.sale_price)/ COUNT(DISTINCT SALESPERSON.fname) AS 'Cars sold per Salesperson', DEALERSHIP.location AS 'Dealership' FROM CAR INNER JOIN DEALERSHIP ON CAR.dealership_id = DEALERSHIP.dealership_id INNER JOIN SALESPERSON ON CAR.dealership_id = SALESPERSON.dealership_id GROUP BY CAR.dealership_id ORDER BY 'Dealership' ASC
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table

+ Options

Cars sold per Salesperson	Dealership
201.0000	Las Vegas, Nevada
209.0000	Milano, Italy
43.0000	North Miami Beach, Florida
47.0000	Seoul, South Korea

Show all Number of rows: 25 Filter rows: Search this table

Query results operations

Print view Export Display chart Create view

Bookmark this SQL query

Label: Let every user access this bookmark

Console

DEALERSHIP
Columns: dealership_id, location, name, website, year
Indexes

MODEL
Columns: New, engine_type, fuel_consumption, model_ID, name, top_speed
Indexes

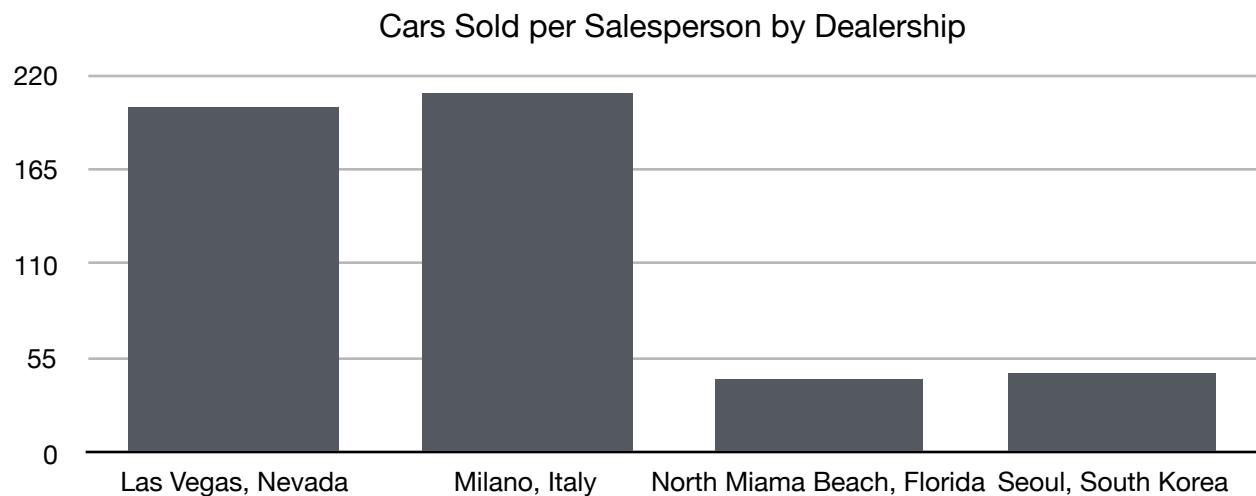
SALESPERSON
Columns: New, dealership_id, email, fname, lname, mobile, phone, salesperson_id
Indexes

information_schema

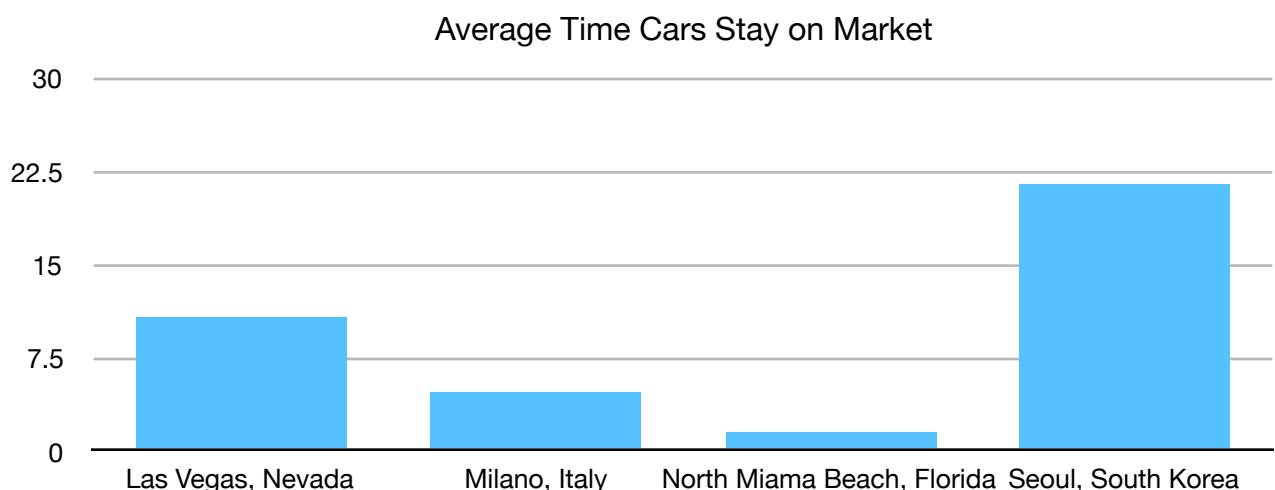
To: Lamborghini Management Department
From: Ayaan Hussain, IS Analyst, Lamborghini.
Date: 15th April, 2019.
Subject: Expansion of the Lamborghini Milano Branch.

After analyzing the data provided to me, I have come to the conclusion that the firm should allocate resources to prioritize the expansions of the Milano, Italy dealership over the rest of the dealerships for the time being. I have found that the Milano Dealership has consistently managed to make sales at prices higher than its cars' ask price even though it is a relatively recently established dealership when compared to the rest. The Milano dealership also sells a higher number of cars than the compared to most of the others while also employing a fewer number of salespeople hence implying that the sales of vehicles at this dealership is more efficient and manageable at this dealership as well as the highest revenue per salesperson.

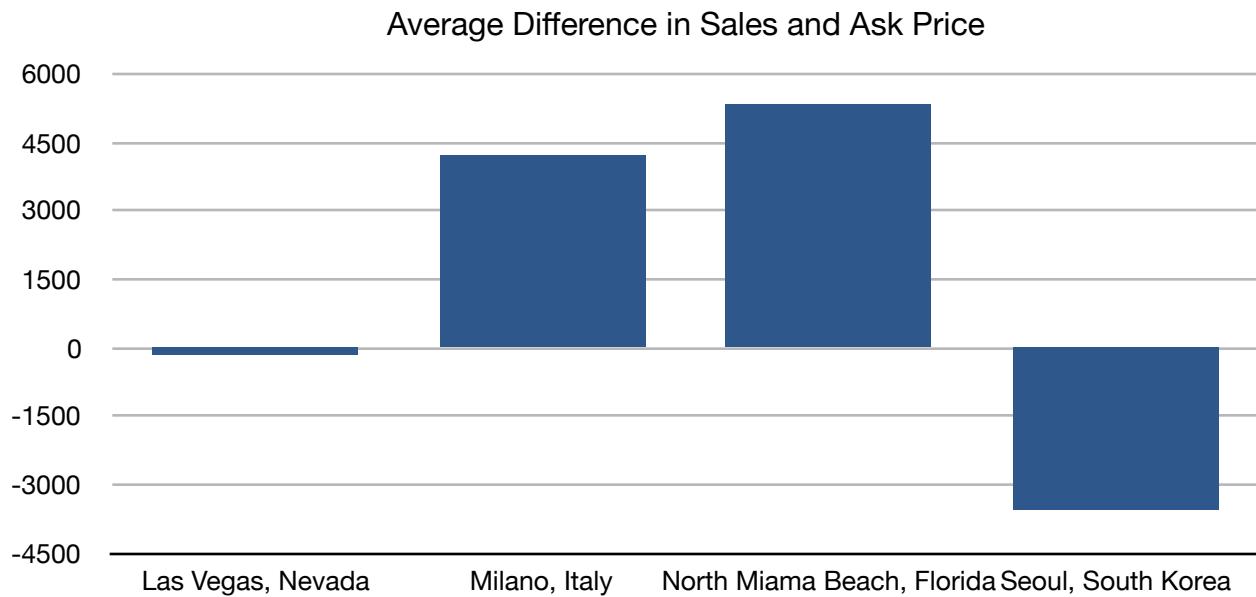
The figure below shows the average difference in sales per salesperson showing how Milan has the most efficient sales team as on average, one salesperson sells 209 cars.



In the figure below, we can see that the cars sold by the dealership remains for the least time in Milano and Miami implying a high sales rate for the cars in these two dealerships compared to the other two which have values almost thrice as long compared to these two.

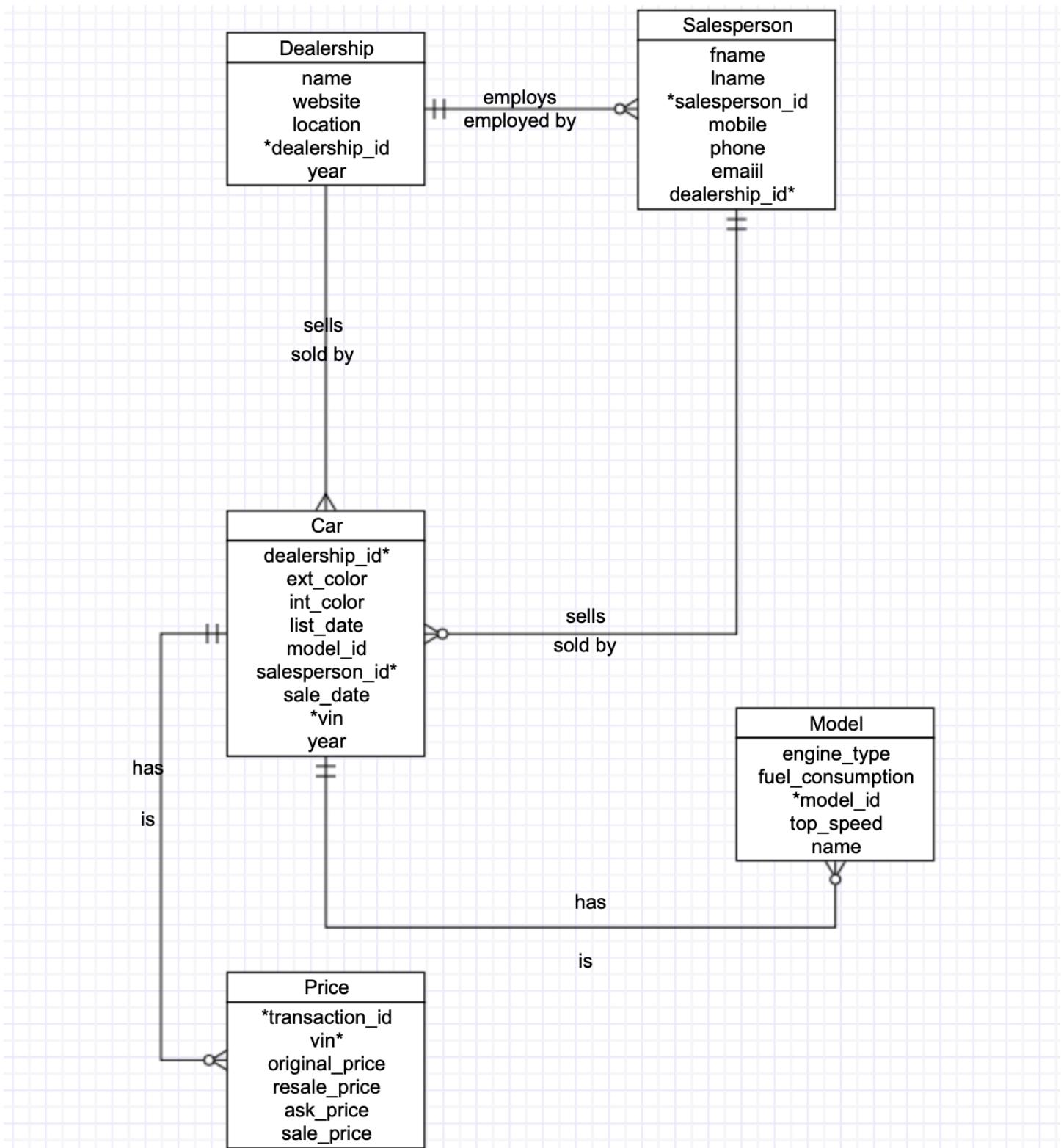


From the figure below, we see that the Milano branch again has the second highest difference between the sales and ask price showing us how they sell at a price higher than the ask implying a much higher profit as compared to those dealerships that have to sell at prices with a negative sales vs. ask price.



The Milano branch's superior car sales in terms of number of cars sold along with its clear superiority when it comes to the number of cars sold per salesperson and the short duration for which the cars stay at the dealership make it a more viable option than North Beach Miami as even though the Miami branch has better figures at more than one front, their slight disadvantage when it comes to the number of salespeople they need to reach the same efficiency as the Milan branch makes it less viable to expand than the Milan branch as the Milan branch shows more potential for higher profits upon expansion when compared to every other branch.

Additional data regarding whether the cost to ship the cars to the dealership from the manufacturing unit is lower compared to other dealerships would help us determine whether we can markup the prices in this dealership more to make extra profit and further incentivize its expansion. I believe this is plausible because Lamborghini cars are manufactured in Italy and it would be considerably cheaper to get cars delivered to somewhere within Italy compared to a place such as Las Vegas. This is why I believe it would be most beneficial to the firm to expand the Milano dealership.



7.

B)

1. We could find out the average profit made per car sale by dealership to find out which dealer has the highest profitability.
2. We could calculate the amount of value the car loses per year of its life by using its resale value to find out which dealer on average sells the cars which has the least price decay.
3. We can also find out the markup percentage and profit percentage and see which dealership has to give the least discount to land a sale.

C)

```
SELECT(ROUND(AVG(PRICE.sale_price-PRICE.list_price)),2) AS 'Average Profit Per Car' , MODEL.name AS 'Model' FROM PRICE INNER JOIN MODEL ON MODEL.model_id = DEALERSHIP.model_id INNER JOIN PRICE ON PRICE.vin = CAR.vin GROUP BY MODEL.name;
```