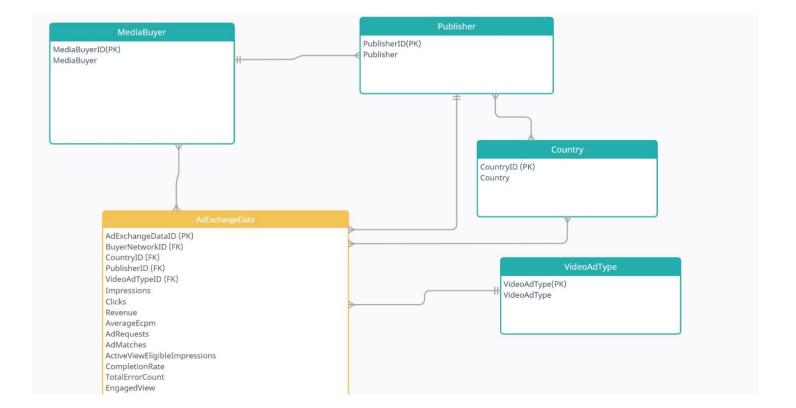
First Quarter Ad Performance Database

• ERP Design



Database & Associated Tables

```
ysql> describe Publisher;

-----+
Field | Type | Null | Key | Default | Extra |

-----+
Publisher_ID | bigint | NO | PRI | NULL | |

Publisher | varchar(255) | YES | | NULL | |

rows in set (0.00 sec)
```

26 rows - Game Publishers

350 rows - Media Buyers

226 rows - Countries

8 rows -Ad Types

Field	Type		Null		Кеу	Default	Extra
Ad Exchange ID	+ int	-+-	NO	-+-	PRI	NULL	-+ auto increment
Media buyer ID	varchar(255)		YES		MUL	NULL	_
Country_ID	int		YES		MUL	NULL	
Video_ad_type_ID	int		YES		MUL	NULL	
Publisher_ID	bigint		YES		MUL	NULL	
Ad_Exchange_impressions	int		YES			NULL	
Ad_Exchange_clicks	int		YES			NULL	
Ad_Exchange_revenue	decimal(10,2)		YES			NULL	
Ad_Exchange_average_eCPM	decimal(10,2)		YES			NULL	
Ad_Exchange_ad_requests	int		YES			NULL	
Ad_Exchange_Ad_Match	int		YES			NULL	
Ad_Exchange_Active_View_eligible_impressions	int		YES			NULL	
Completion_rate	decimal(5,2)		YES			NULL	
Total_error_count	int		YES			NULL	
Engaged_view	int		YES			NULL	

~15,000 rows of Ad Performance Data

Queries

Query 1: What are the top 10 media buyers for north America (USA & Canada). It is a JOIN query that includes Aggregation, Sorting & Filtering.

Query 2: Which of the top 3 publishers brought in the most revenue last quarter? It is an aggregation and sorting query.

Query 3: Here I have tried to create a stored procedure that retrieves the best video ad type based on ad revenue for the first 5 media buyers.

Query 4: Which media buyer has the most error rate and in which 10 countries? This query aggregates, sorts and filters datasets 3 tables.

Query 5: Understand the correlation between CPM and Engaged View? – Here I will use a stored function (Pearson correlation coefficient)