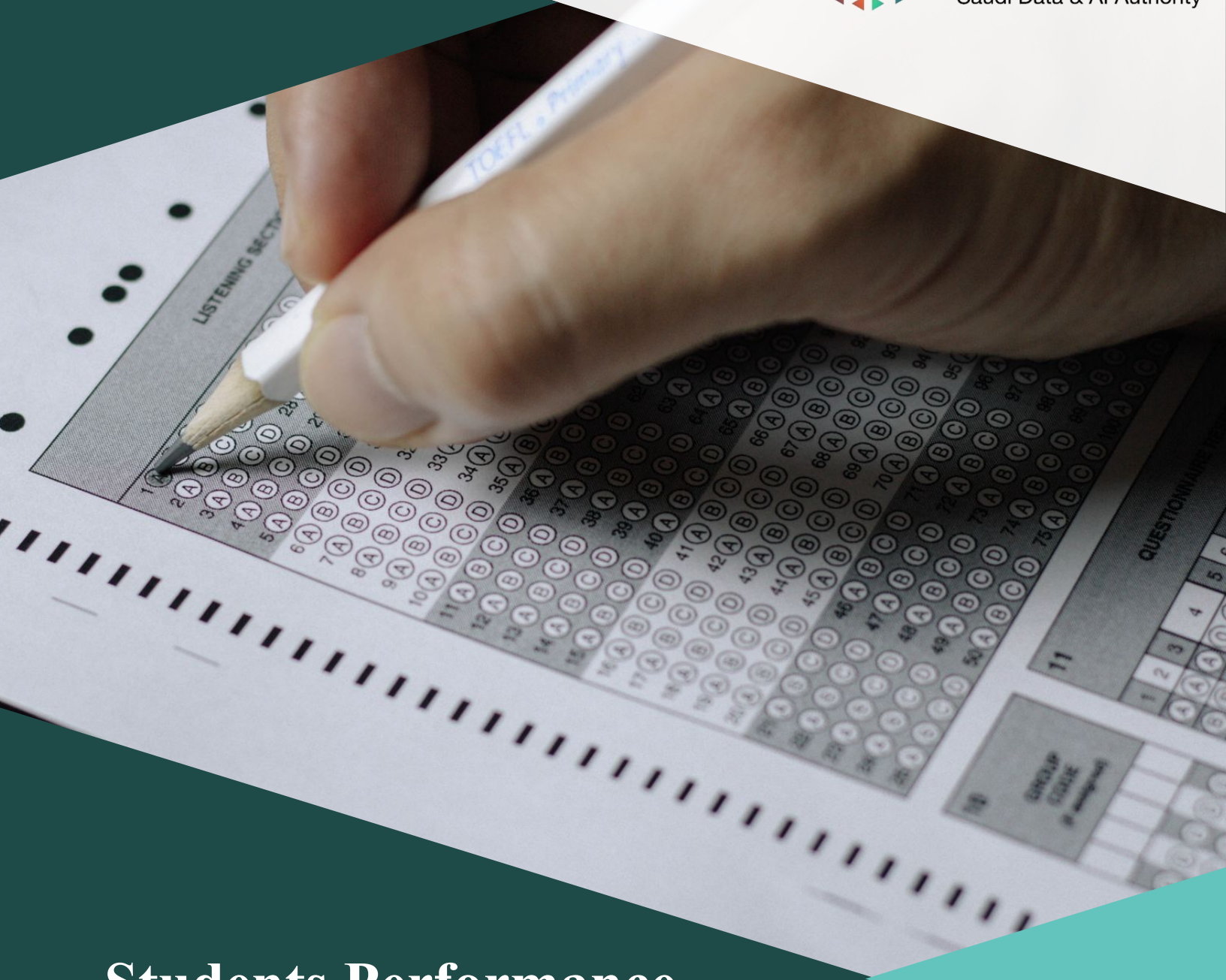




SDAIA

الهيئة السعودية للبيانات
والذكاء الاصطناعي
Saudi Data & AI Authority



Students Performance in General Aptitude Test

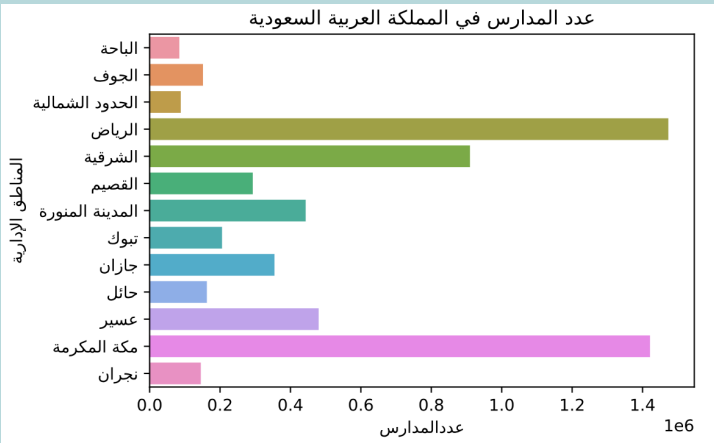
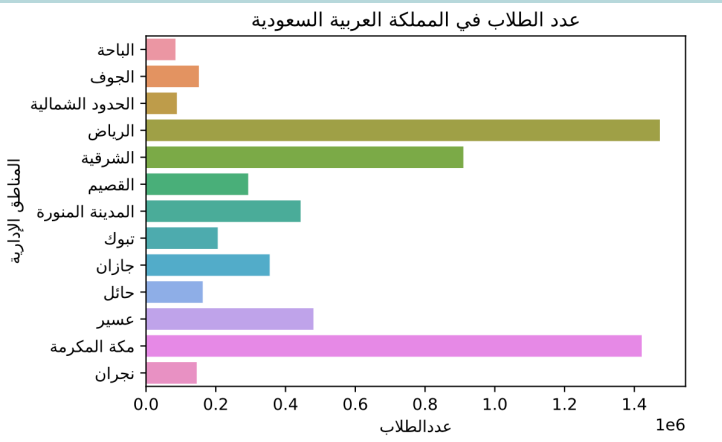
MVP

Done by: Maitha Alqahtani

Submit to: Mr.Ali El-kassas

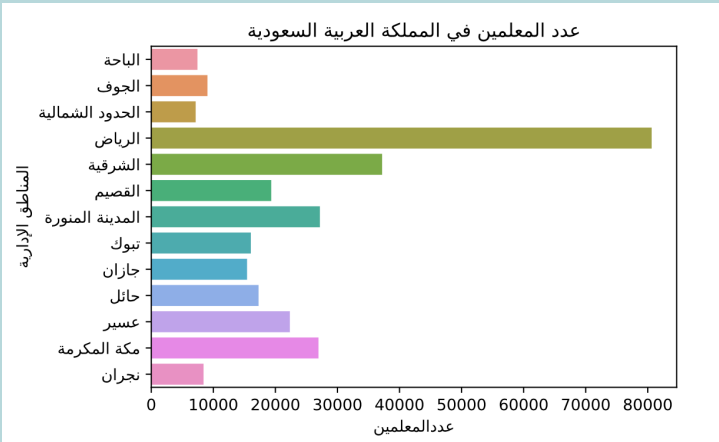
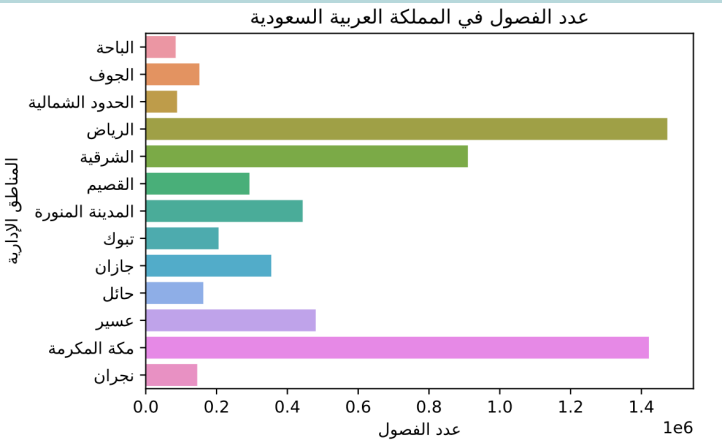
By exploring data in the Ministry of Education in the Kingdom of Saudi Arabia. The data consists of:

1. The student's total for each region of the Kingdom of Saudi Arabia, which consisted of 5598 rows and 16 columns, and was grouped according to the regions of the Kingdom of Saudi Arabia, and the number of students was calculated. They were also reduced to 13 rows and two columns.



2. The total of schools for each region of the Kingdom of Saudi Arabia, which consists of 2434 rows and 7 columns, and it was grouped according to the regions of the Kingdom of Saudi Arabia, and the number of schools was calculated. It has also been reduced to 13 rows and 2 columns.

3. The total of the classrooms for each region of the Kingdom of Saudi Arabia, which consists of 5440 rows and 8 columns, and were grouped according to the regions of the Kingdom of Saudi Arabia, and the number of classrooms was calculated. It has also been reduced to 13 rows and 2 columns.



4. The total of teachers for each region of the Kingdom of Saudi Arabia, which consists of 48 rows and 7 columns, and they were grouped according to the regions of the Kingdom of Saudi Arabia, and the number of teachers was calculated. It has also been reduced to 13 rows and 2 columns.

The previous databases were merged with the cultural factor database for all regions of the Kingdom of Saudi Arabia. Moreover, by Looking at the data types and descriptive statistics of features we finds There are both numeric and object type features in data as shown below:

عدد الطلاب	عدد المدارس	عدد الفصول	عدد المعلمين	مكتبة منزلية	قراء صحف ومجلات	قراءة كتب	مشاهدة التلفاز	الاستماع إلى المحطات الإذاعية	
12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	count
441,956.83	2,386.58	20,560.83	36,500.92	29.15	50.37	47.32	93.02	37.30	mean
487,347.89	2,204.52	21,470.72	37,029.72	8.29	3.79	9.92	3.83	6.24	std
84,464.00	505.00	3,978.00	7,156.00	13.77	45.66	36.69	85.16	28.02	min
149,994.50	905.25	6,763.50	12,150.25	26.05	47.49	41.16	90.78	32.63	25%
249,334.50	1,659.00	12,320.50	21,888.00	30.50	49.36	46.05	94.00	37.98	50%
452,455.50	2,607.25	21,646.25	39,929.00	34.83	53.54	48.78	96.25	43.53	75%
1,473,236.00	7,246.00	66,100.00	114,635.00	40.58	56.64	68.41	97.37	45.09	max

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 12 entries, 0 to 11
Data columns (total 10 columns):
#      Column                                     Non-Null Count  Dtype
---  -
0      12      المنطقة الإدارية      non-null        object
1      12      عدد الطلاب      non-null        float64
2      12      عدد المدارس      non-null        float64
3      12      عدد الفصول      non-null        float64
4      12      عدد المعلمين      non-null        int64
5      12      مكتبة منزلية      non-null        float64
6      12      قراء صحف ومجلات      non-null        float64
7      12      قراءة كتب      non-null        float64
8      12      مشاهدة التلفاز      non-null        float64
9      12      الاستماع إلى المحطات الإذاعية      non-null        float64
dtypes: float64(8), int64(1), object(1)
memory usage: 1.0+ KB
```