Tingwei Adeck

Q1. Use the encounter table in the ehr database. Classify age into two groups labelled 'Child' and 'Adult'. A child represents patients with age <= 20 and an adult represents patients with age >20. Hint: use the case function. Remember not to print out more than 20 rows of data.

```sql
/********************************
Filename: case_age.sql
Written by: Tingwei Adeck
Date: Oct 24th 2022
Description: Query to group ages into adult and child using the
case function
Data source: ehr.encounter
Output: A new attribute for age group
********************************/

select PAT_ID, PAT_TYPE_ID, AGE,
case AGE
    when age <= 20 then 'Child'
    else 'Adult'
end
from encounter;
```

#	PAT_ID	PAT_TYPE_ID	AGE	CASE AGE WHEN age <= 20 THEN 'Child' ELSE 'Adult' END
1	290301980	98	52	Adult
2	237141871	98	58	Adult
3	322907986	98	43	Adult
4	674130335	98	55	Adult
5	688134064	84	40	Adult
6	331304195	84	38	Adult
7	666803646	78	42	Adult
8	282710339	84	80	Adult
9	690124163	84	75	Adult
1	694052848	78	74	Adult

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Q2. Use the hospital table in the ehr database. Convert null values of teaching_ind to -1 and print the values only for census_reg = "West". Hint: Use coalesce function.

```
/*********************************
Filename: coalesce.sql
Written by: Tingwei Adeck
Date: Oct 24th 2022
Description: Query using the coalesce function to convert null
values to -1 where the census region is West
Data source: ehr.hospital
Output: Conversion of null values to -1
*********************************/

select HOSP_ID,CENSUS_REG,TEACHING_IND,coalesce(TEACHING_IND,-
1,2,NULL)
from hospital
where CENSUS_REG = "West"
limit 10
```

#	HOSP_ID	CENSUS_REG	TEACHING_IND	coalesce(TEACHING_IND, - 1, 2, NULL)
1	950	West	NULL	-1
2	966	West	NULL	-1
3	668	West	0	0
4	14246	West	NULL	-1
5	865	West	NULL	-1
6	968	West	NULL	-1
7	13353	West	NULL	-1
8	930	West	NULL	-1
9	770	West	0	0
1	688	West	1	1

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Q3. Use the ehr database and write a SQL query that will list all the table names.

```
/********************************
Filename: alltables_sqlite.sql
Written by: Tingwei Adeck
Date: Oct 24th 2022
Description: Query to list all the table names in the Her database
Data source: Ehr
Output: A list of all Ehr tables
********************************/
select tbl_name as All_tables_in_Ehr
from sqlite_master
```

#	All_tables_in_Ehr
1	encounter
2	patient_type
3	hospital

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Q4. Use the melange database and write a SQL query that will list all the field names in the crawling table.

```
/*********************************
Filename: allattributes.sql
Written by: Tingwei Adeck
Date: Oct 24th 2022
Description: List all attributes in the mélange.crawling table
Data source: Melange.crawling
Output: All attribute names, type and notnull values etc. for the
crawling table.
*********************************/
pragma table_info(crawling)
```

#	cid	name	type	notnull	
1	0	Birth_month	TEXT	0	
2	1	Temperature	INTEGER	0	
3	2	avg_crawling_age	REAL	0	

#	dflt_value	pk
1	NULL	0
2	NULL	0
3	NULL	0