SQL Queries for Cleaned_People_Data & Outputs

Query 1:

CREATE INDEX UserID_index ON cleaned_people_data(user_id);
CREATE INDEX Sex_index ON cleaned_people_data(sex);
CREATE INDEX JobTitle_index ON cleaned_people_data(job_title);

CREATE VIEW AvgBirthYear AS
SELECT AVG(CAST(strftime('%Y', date_of_birth) AS INTEGER)) AS avg_birth_year
FROM cleaned_people_data;

Output:

avg_birth_year
1964.686

Query2:

CREATE VIEW CountByGender AS
SELECT sex, COUNT(*) AS total FROM cleaned_people_data GROUP BY sex;

Output:

sex	total
Female	494
Male	506

Query3:

CREATE VIEW JobTitleStats AS
SELECT job_title, COUNT(*) AS count FROM cleaned_people_data GROUP BY job_title
ORDER BY count DESC;

Output:

job_title	count
Paediatric nurse	7
Phytotherapist	7
Nurse, adult	6
Production engineer	6
Nurse, mental health	6

Query4:

SELECT user_id, first_name, last_name, date_of_birth
FROM cleaned_people_data
WHERE date_of_birth > '2000-01-01'
ORDER BY date_of_birth DESC
LIMIT 5;

Output:

user_id	first_name	last_name	date_of_birth
5627680A2Ca214B	Malik	Summers	2022-03-28
de8Bb8dEa84d29F	Jenna	Dawson	2022-03-05
C8C2ebF103A8E69	Jenny	Nash	2022-01-26
05d4a275BAf55B0	Anthony	Wallace	2021-11-10
4D01fd1AA71fdcF	Candice	Estes	2021-10-24

Query5:

SELECT user_id, first_name, last_name, date_of_birth
FROM cleaned_people_data
WHERE CAST(strftime('%Y', date_of_birth) AS INTEGER) < (
   SELECT AVG(CAST(strftime('%Y', date_of_birth) AS INTEGER)) FROM
cleaned_people_data
)
LIMIT 5;

Output:

user_id	first_name	last_name	date_of_birth
3d5AD30A4cD38ed	Jo	Rivers	1931-07-26
9afFEafAe1CBBB9	Lindsey	Rice	1923-04-15
aF75e6dDEBC5b66	Sherry	Caldwell	1917-08-06
4A42Fe10dB717CB	Harry	Mitchell	1953-06-29
86cCc6417942b4B	Sara	Huff	1964-05-21

Query6:

SELECT a.user_id AS user1_id, b.user_id AS user2_id, a.job_title
FROM cleaned_people_data a
INNER JOIN cleaned_people_data b ON a.job_title = b.job_title AND a.user_id <>
b.user_id
ORDER BY a.job_title
 LIMIT 5;

Output:

user1_id	user2_id	job_title
8717bbf45cCDbEe	CAd760C0ddC6EDE	Probation officer
8717bbf45cCDbEe	3ACACCEa43cc701	Probation officer
8717bbf45cCDbEe	FF932e2bcccb9B2	Probation officer
CAd760C0ddC6EDE	8717bbf45cCDbEe	Probation officer
CAd760C0ddC6EDE	3ACACCEa43cc701	Probation officer

Query7:

SELECT a.user_id, a.first_name, b.user_id AS matched_user, b.sex
FROM cleaned_people_data a
LEFT JOIN cleaned_people_data b
   ON a.sex = b.sex AND a.user_id <> b.user_id
ORDER BY a.sex
LIMIT 5;

Output:

user_id	first_name	matched_user	sex
8717bbf45cCDbEe	Shelia	BF2a889C00f0cE1	Male
8717bbf45cCDbEe	Shelia	aF75e6dDEBC5b66	Male
8717bbf45cCDbEe	Shelia	efeb05c7Cc94EA3	Male
8717bbf45cCDbEe	Shelia	fb1BF3FED57E9d7	Male
8717bbf45cCDbEe	Shelia	421fAB9a3b98F30	Male

Query8:

:SELECT DISTINCT job_title
FROM cleaned_people_data
ORDER BY job_title
LIMIT 5;

Output:

job_title
Academic librarian
Accommodation manager
Accountant, chartered
Accountant, chartered certified
Accountant, chartered public finance