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Task:

1.Add primary key constraint to customer_id in customer table Solution:

alter table customer add primary key(customer id);

2.Add primary key constraint to account_number in account table Solution:

alter table account add primary key(account number);

3.Add foreign key constraint to customer_number in account table which refers customer_id of customer table

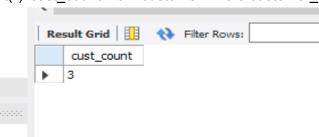
Solution:

alter table account add constraint foreign key (customer_number) references customer(customer_id);

4. Write a query to display the number of customer's from Chennai. Give the count an alias name of Cust_Count.

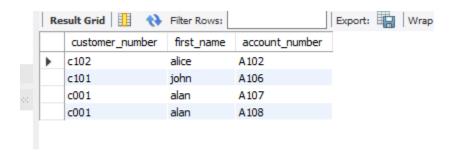
Solution:

select count(*) 'cust_count' from customer where customer_city = 'chennai'



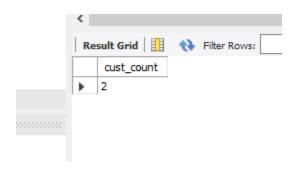
5. Write a query to display the customer number, customer firstname, account number for the customer's whose accounts were created after 15th of any month Solution:

select customer_number,first_name,account_number from account acc join customer cus on acc.customer_number=cus.customer_id where day(account_opening_date)>15;



6. Write a query to display the number of customers who have registration but no account in the bank. Give the alias name as Count_Customer for number of customers Solution:

select count(*) as cust_count from account acc left join customer cus on acc.customer_number=cus.customer_id where acc.customer_number is null;



7. Create table transaction_details with columns

transaction_number VARCHAR(6)

account number VARCHAR(6)

date of transaction DATE

medium_of_transaction VARCHAR(20)

transaction type VARCHAR(20)

transaction amount double

Solution:

create table transaction_details(transaction_number varchar(6), account_number varchar(6), date_of_transaction date, medium of transaction varchar(20),

transaction_type varchar(20),

transaction amount double);

8. Add foreign key constraint to account_number in transaction table which refers account_number of account table Solution:

alter table transaction_details add constraint foreign key (account_number) references account(account_number);

9.Insert rows in transaction table Solution:

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insert into transaction_details values('t001','A101','2025-07-07','online','credit',45000.00), ('t002','A102','2025-07-08','atm','debit',5000.00), ('t003','A103','2025-07-09','branch','credit',12000.00), ('t004','A104','2025-07-10','mobile','debit',2500.00), ('t005','A105','2025-07-11','online','credit',30000.00),
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('t006','A107','2025-07-07','online','debit',45000.00);

10. Write a query to display the total number of withdrawals and total number of deposits being done by customer whose customer number ends with 001. The query should display transaction type and the number of transactions. Give an alias name as Trans_Count for number of transactions. Display the records sorted in ascending order based on transaction type

Solution:

select distinct td.transaction_type, COUNT(*) trans_count from transaction_details td join account acc on td.account_number = acc.account_number join customer cus on acc.customer_number = cus.customer_id where cus.customer_id like '%001' group by td.transaction_type order by td.transaction_type asc;

