Final SQL Queries Used:

```
UPDATE telco customer churn
SET TotalCharges = TRIM(TotalCharges);
UPDATE telco customer churn
SET TotalCharges = '0'
WHERE TotalCharges = " OR TotalCharges IS NULL;
UPDATE telco_customer_churn
SET TotalCharges = REPLACE(REPLACE(REPLACE(TotalCharges, '$', "), ',', "), '', ")
WHERE TotalCharges REGEXP '[^0-9.]';
ALTER TABLE telco_customer_churn
MODIFY COLUMN TotalCharges DECIMAL(10, 2);
ALTER TABLE telco_customer_churn
ADD COLUMN Tenure_Months_Binned VARCHAR(20);
UPDATE telco_customer_churn
SET Tenure_Months_Binned =
  CASE
    WHEN tenure >= 0 AND tenure <= 12 THEN '0-12 Months'
    WHEN tenure > 12 AND tenure <= 24 THEN '13-24 Months'
    WHEN tenure > 24 AND tenure <= 48 THEN '25-48 Months'
    WHEN tenure > 48 AND tenure <= 72 THEN '49-72 Months'
    WHEN tenure > 72 THEN '72+ Months'
```

```
END;
ALTER TABLE telco_customer_churn
ADD COLUMN Total_Service_Addons INT;
UPDATE telco_customer_churn
SET Total_Service_Addons =
  (CASE WHEN OnlineSecurity = 'Yes' THEN 1 ELSE 0 END) +
  (CASE WHEN OnlineBackup = 'Yes' THEN 1 ELSE 0 END) +
  (CASE WHEN DeviceProtection = 'Yes' THEN 1 ELSE 0 END) +
  (CASE WHEN TechSupport = 'Yes' THEN 1 ELSE 0 END) +
  (CASE WHEN StreamingTV = 'Yes' THEN 1 ELSE 0 END) +
  (CASE WHEN StreamingMovies = 'Yes' THEN 1 ELSE 0 END);
ALTER TABLE telco_customer_churn
ADD COLUMN Has_Paperless_Electronic_Payment INT;
UPDATE telco_customer_churn
SET Has_Paperless_Electronic_Payment =
  CASE
    WHEN PaperlessBilling = 'Yes' AND PaymentMethod = 'Electronic check' THEN 1
    ELSE 0
  END;
ADD COLUMN Average_Monthly_Charge_per_Tenure DECIMAL(15, 6);
UPDATE telco_customer_churn
```

ELSE 'Unknown'

```
SET Average_Monthly_Charge_per_Tenure =
  CASE
    WHEN tenure > 0 THEN TotalCharges / tenure
    ELSE MonthlyCharges
  END;
ALTER TABLE telco_customer_churn
MODIFY COLUMN SeniorCitizen VARCHAR(3);
UPDATE telco_customer_churn
SET SeniorCitizen =
  CASE
    WHEN SeniorCitizen = '0' THEN 'No'
    WHEN SeniorCitizen = '1' THEN 'Yes'
    ELSE SeniorCitizen
  END;
ALTER TABLE telco_customer_churn
MODIFY COLUMN Has_Paperless_Electronic_Payment VARCHAR(3);
UPDATE telco_customer_churn
SET Has_Paperless_Electronic_Payment =
  CASE
    WHEN Has_Paperless_Electronic_Payment = '0' THEN 'No'
    WHEN Has_Paperless_Electronic_Payment = '1' THEN 'Yes'
    ELSE Has_Paperless_Electronic_Payment
  END;
```

ALTER TABLE telco_customer_churn

CHANGE COLUMN Tenure_Months_Binned TenureMonthsBinned VARCHAR(20);

ALTER TABLE telco_customer_churn

CHANGE COLUMN Total_Service_Addons TotalServiceAddons INT;

ALTER TABLE telco_customer_churn

CHANGE COLUMN Has_Paperless_Electronic_Payment HasPaperlessElectronicPayment VARCHAR(3);

ALTER TABLE telco_customer_churn

CHANGE COLUMN Average_Monthly_Charge_per_Tenure AverageMonthlyChargePerTenure DECIMAL(15, 6);