# The list of requirements

1. Proposal is submitted with all required specifications.
2. ERD is included in the proposal; the number of tables is 13.
3. Most tables contain the required number of entities.
4. 15 reports are submitted in 2 formats: pdf – description, sql – description + executable code.
5. The following fields are masked: s24240370.customers_ProfG_FP – password, address; s24240370.customers_archive_ProfG_FP – address; s24240370.credit_cards_ProfG_FP – card_number, exp_date, cvv; s24240370.phone_numbers_ProfG_FP – phone_number; s24240370.emails_ProfG_FP – email_address.
6. Business are submitted in 2 formats: pdf – description, sql – description + executable code.
7. To resolve the issue with the slow system indexed view was created s24240370.sales_report_view_ProfG_FP with the clustered index inx_sales_report_view_ProfG_FP.
8. To resolve the issue with data retention policy, archive table was created: s24240370.customers_archive_ProfG_FP. Before the customer is removed from s24240370.customers_ProfG_FP, most of their personal information, including the information from s24240370.emails_ProfG_FP is copied to archive table, it's achieved with s24240370.trg_customer_archive_ProfG_FP trigger (instead of delete).
9. The procedures that crates json payloads are s24240370.get_customer_preferences_json_ProfG_FP, s24240370.get_order_details_ProfG_FP, s24240370.get_payment_status_ProfG_FP.
10. 4 user-defined functions were created: s24240370.is_valid_email_ProfG_FP, s24240370.is_valid_phone_number_ProfG_FP, s24240370.get_full_name_ProfG_FP, s24240370.get_date_specified_period_ProfG_FP.
11. 18 stored procedures were created:
    - most business rules procedures use error handling, 3 examples are s24240370.add_customer_ProfG_FP, s24240370.add_order_ProfG_FP, s24240370.user_password_reset_ProfG_FP;
    - most business rules procedures use transaction control, 2 examples are s24240370.issue_refund_ProfG_FP, s24240370.add_customer_ProfG_FP;
    - there are a couple of nested store procedures, the 1 example is s24240370.cancel_order_ProfG_FP calls to s24240370.issue_refund_ProfG_FP, the return of issue refund procedure is evaluated in cancel order, the order is not canceled if the refund could not be initiated.
    - all store procedures have adequate comments.
12. 8 triggers were created for 7 different tables:

- 3 on delete: s24240370.trg_instead_of_delete_picker_ProfG_FP, s24240370.trg_category_removal_ProfG_FP, s24240370.trg_customer_archive_ProfG_FP;
- 2 on insert: s24240370.trg_insert_order_products_ProfG_FP, s24240370.trg_num_credit_cards_ProfG_FP;
- 2 on update: s24240370.trg_canceled_orders_ProfG_FP, s24240370.trg_update_email_ProfG_FP;
- 1 on insert/delete/update: s24240370.trg_customer_logs_ProfG_FP.
13. Presentation on 12/5.

# Database objects

## Tables – 13

- s24240370.customers_ProfG_FP
- s24240370.customers_archive_ProfG_FP
- s24240370.credit_cards_ProfG_FP
- s24240370.phone_numbers_ProfG_FP
- s24240370.emails_ProfG_FP
- s24240370.orders_ProfG_FP
- s24240370.pickers_ProfG_FP
- s24240370.pickers_orders_ProfG_FP
- s24240370.payments_ProfG_FP
- s24240370.products_ProfG_FP
- s24240370.categories_ProfG_FP
- s24240370.order_product_details_ProfG_FP
- s24240370.logs_ProfG_FP

## Views – 1

- s24240370.sales_report_view_ProfG_FP

## Index – 1

- inx_sales_report_view_ProfG_FP

## Functions – 4

- s24240370.is_valid_email_ProfG_FP
- s24240370.is_valid_phone_number_ProfG_FP
- s24240370.get_full_name_ProfG_FP

- s24240370.get_date_specified_period_ProfG_FP

## Stored procedures – 18

- s24240370.add_customer_ProfG_FP
- s24240370.check_customer_loyalty_ProfG_FP
- s24240370.user_password_reset_ProfG_FP
- s24240370.customer_email_update_ProfG_FP
- s24240370.cancel_order_ProfG_FP
- s24240370.customer_phone_number_update_ProfG_FP
- s24240370.order_details_type_ProfG_FP
- s24240370.issue_refund_ProfG_FP
- s24240370.send_email_confirmation_ProfG_FP
- s24240370.get_sales_summary_ProfG_FP
- s24240370.get_order_frequency_ProfG_FP
- s24240370.is_valid_customer_id_ProfG_FP
- s24240370.get_customer_preferences_json_ProfG_FP
- s24240370.get_frequent_cancelers_ProfG_FP
- s24240370.get_customer_credit_card_count_ProfG_FP
- s24240370.get_order_details_ProfG_FP
- s24240370.get_payment_status_ProfG_FP
- s24240370.mark_customer_as_suspicious_ProfG_FP

## Triggers – 8

- s24240370.trg_insert_order_products_ProfG_FP
- s24240370.trg_canceled_orders_ProfG_FP
- s24240370.trg_update_email_ProfG_FP
- s24240370.trg_customer_logs_ProfG_FP
- s24240370.trg_instead_of_delete_picker_ProfG_FP
- s24240370.trg_category_removal_ProfG_FP
- s24240370.trg_num_credit_cards_ProfG_FP
- s24240370.trg_customer_archive_ProfG_FP