LATVIJAS UNIVERSITĀTE

DATORIKAS FAKULTĀTE

**NEVIENDABĪGU INTEGRĒTU DATU AVOTU EVOLŪCIJAS APSTRĀDE**

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RĪGA 2020

ANOTĀCIJA

ABSTRACT

Processing of integrated heterogeneous data sources evolution

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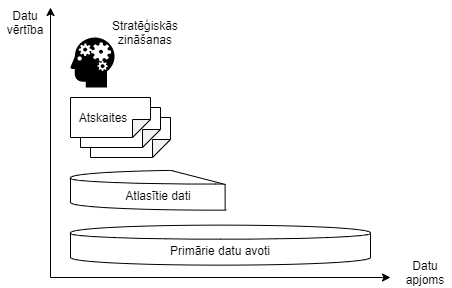
APZĪMĒJUMU SARAKSTS

ETL, OLAP, OLTP, DBPS, DSS, 4GL (fourth generation technology)

IEVADS

1. Datu noliktavas

Pašos pirmsākumos datu glabāšanai tika izmantoti ļoti dārgi un ierobežotas ietilpības mehānismi – perfokartes, magnētiskās lentas, pēc tam ar pavisam jauniem papildinājumiem nāca klajā diskatmiņa. Drīz vien diskatmiņas tika papildinātas ar datu bāzu pārvaldības sistēmām jeb DBPS, kuru galvenais izmantošanas ieguvums bija ļoti ātra datu ievietošana sistēmā [7]. Līdz pat 80.gadu vidum, šādās datu bāzēs tika glabāti tikai operatīvie dati – dati, kuri ir iesaistīti ikdienā veicamajos procesos. Tomēr bieži vien stratēģisku lēmumu pieņemšanai bija nepieciešams ātra pieeja glabātajiem datiem [8].

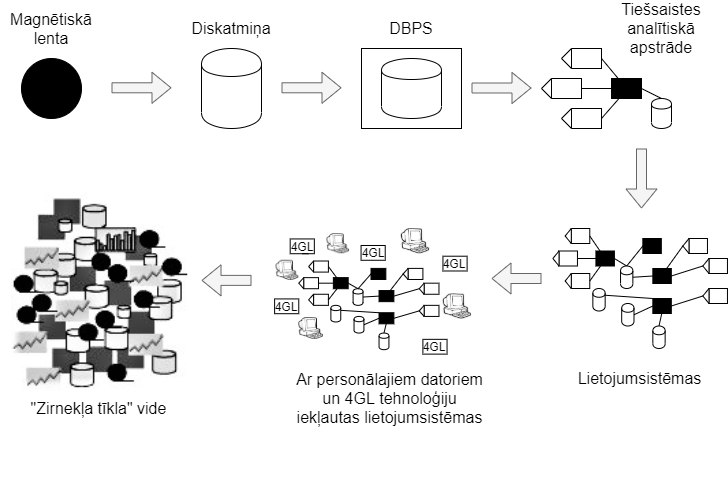


*1.1. att.* Informācijas vērtības atkarība no datu daudzuma

Lai iegūtu visvērtīgāko informāciju – stratēģiskās zināšanas, nepieciešami vairāki datu stāvokļi, kur katrs no tiem satur atšķirīgu informācijas daudzumu (skat. att. 1.1. - adaptēts un latviskots no [8]). Vislielākais datu apjoms ir primārajiem datu avotiem, kur glabājas pilnīgi visa uzkrātā informācija. Pēc tam, izvēloties konkrētu subjektu, par kuru jāiegūst stratēģiskās zināšanas, tiek atlasīti konkrēti ar šo subjektu saistītie dati. Un tikai tad, kad izveidotas atskaites par izvēlēto subjektu, iespējams iegūt kopskatu, līdz ar to arī stratēģiskās zināšanas.

Tā kā operatīvo datu apjoms jau tobrīd pieauga eksponenciāli, datori tika atzīti par vienīgo iespējamo rīku, ar ko šādā daudzpakāpju veidā apstrādāt un analizēt informāciju. Tā rezultātā tika ieviests jēdziens “lēmumu atbalsta sistēmas” (angļu val. *Decision support systems* jeb *DSS*). Par DSS tiek saukts paplašināmu un interaktīvu metožu un rīku kopums, kas paredzēts vadības stratēģisko lēmumu pieņemšanas atbalstam, iekļaujot tajā datu apstrādi un analīzi [8].

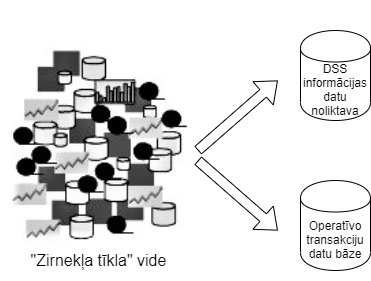
Izmantojot DSS rīkus, arvien biežāk analītiskā apstrāde tika veikta tiešsaistē. Attīstoties tehnoloģijām, tika veidotas arvien lielākas lietojumsistēmas. Lai apmierinātu lietotāju vajadzību pēc iespējami ātras un ērtas piekļuves datiem, radās divas tehnoloģijas – personālie datori un 4GL. Personālie datori ļāva jebkuram lietotājam individuāli apstrādāt datus, taču 4GL tehnoloģijas ideja bija padarīt programmatūras izstrādi tik vienkāršu, lai to varētu darīt jebkurš [7].



*1.2. att.* “Zirnekļa tīkla” vides attīstība

Iepriekšminētās attīstības rezultātā radās nekārtība, ko mēdz saukt par “zirnekļa tīkla” vidi (skat. att. 1.2. – adaptēts un latviskots no [7]). Šāds “zirnekļa tīkls” vairākās koorporatīvās vidēs mēdza izaugt neiedomājami sarežģīts, kā rezultātā ar laiku šādu vidi vairs nebija iespējams ne uzturēt, ne pilnveidot. Tai tika iedots nosaukums “dabiski attīstīta arhitektūra”, jo bija maz iespēju to ietekmēt. Jo lielāka kļuva šī arhitektūra, jo vairāk izaicinājumu tā radīja:

* datu ticamība – tā kā dati tika analizēti ar dažādiem algoritmiem, nepastāvēja datu ieguves līmeņi un katrs ar datiem rīkojās atšķirīgi un izvēlējās dažādus datu avotus, rezultāti atskaitēs vairāku analītiķu starpā kļuva pārāk atšķirīgi, līdz ar to – neuzticami;
* produktivitāte – lai analizētu datus no dažādiem datu avotiem, nepieciešams izstrādāt vairākas individuāli pielāgotas programmas, kas savāc datus no katra avota, līdz ar to analītiķim nepieciešams iedziļināties dažādās failu struktūrās, kas ir laikietilpīgi un neproduktīvi;
* nespēja pārveidot datus par informāciju – dati no dažādiem datu avotiem ir par dažādiem laika posmiem un ar atšķirīgām konceptuālajām nozīmēm, ko DSS analītiķim ir gandrīz neiespējami apstrādāt ar izstrādāto rīku palīdzību [9].



*1.3. att.* Pāreja no “Zirnekļa tīkla” vides uz datu noliktavas vidi

Drīz vien pēc DSS jēdziena ieviešanas klajā nāca arī datu noliktavas, kuras tiek uzskatītas par visplašāk izmantoto DSS veidu [8]. Datu noliktavas būtiski izmainīja IT speciālistu domāšanu – līdz šim pastāvēja uzskats, ka datu bāze ir paradzēta, lai glabātu jebkādam nolūkam paredzētus datus. Tomēr līdz ar datu noliktavas jēdziena parādīšanos kļuva acīmredzams, ka ir nepieciešamas dažādu veidu datu bāzes [7], tādēļ “Zirnekļa tīkla” vide tika sadalīta divās atsevišķās daļās, lai glabātu datus pēc to nozīmes datu analītikas kontekstā (skat. att. 1.3.).

Par datu noliktavas jēdziena ieviesēju tiek uzskatīts amerikāņu datorzinātnieks Bils Inmons, kurš to definējis sekojoši: “Datu noliktava ir uz subjektiem orientēta, integrēta, laika atkarīga un nemainīga datu glabāšanas struktūra, kas paredzēta vadības lēmumu pieņemšanas atbalstam.” [4]. Definīcijas pamatā minētas četras galvenās datu noliktavas īpašības:

* uz subjektiem orientēta – izveidotajā datu noliktavā tiek glabāti dati par kādu konkrētu subjektu;
* integrēta – datu noliktavas dati tiek iegūti no dažādiem datu avotiem, līdz ar to šie dati tiek pārveidoti tā, lai to struktūra būtu konsekventa;
* laika atkarīga – lai pieņemtu stratēģiskus biznesa lēmumus, datiem jāatspoguļo laikā notikušās izmaiņas, līdz ar to datu noliktava glabā ne tikai esošo situāciju, bet visus ar subjektu saistītos datus, atšķirībā no OLTP sistēmām, kur vēsturiskie dati tiek pārvietoti uz arhīviem;
* nemainīga – dati, kas ienākuši datu noliktavā, netiek mainīti, lai nodrošinātu datu izmaiņu analīzi [6].

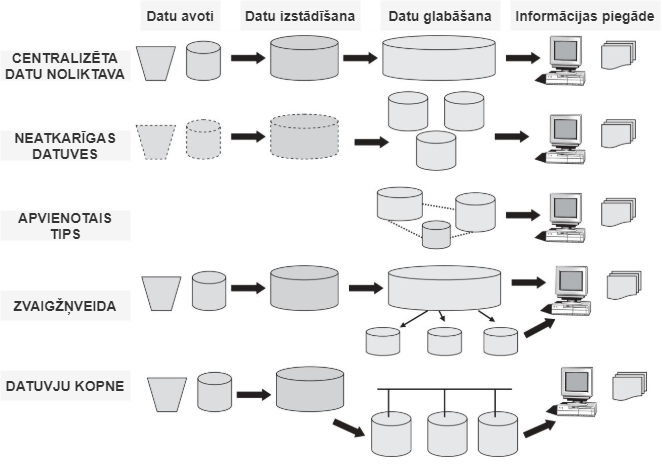
Datu noliktava pamatā tiek projektēta datu atlases un analīzes vaicājumu efektīvai izpildei, mazāk pievēršot uzmanību transakciju apstrādei. Tā tiek realizēta kā relāciju datu bāze, kas papildināta ar ETL risinājumiem, OLAP funkcionalitāti, kā arī dažādiem klienta pusē izmantojamiem rīkiem, kas palīdz apstrādāt un nogādāt datus gala lietotājam saprotamā formā [5]. Par datu noliktavas pamatvienību var uzskatīt datuvi. Tā ir primārajā datu noliktavā glabāto datu apakškopa vai apkopojums. Datuve ietver informācijas vienību, kas attiecas uz konkrētu uzņēmejdarbības jomu, departamentu vai lietotāju grupu [8].

* 1. Datu noliktavas arhitektūra

Datu noliktavas arhitektūrai nepieciešamas sekojošas īpašības:

* atdalāmība – analītiskajām un transakcionālajām darbībām jābūt pēc iespējas nošķirtām;
* mērogojamība – tā kā datu apjoms, kas jāpārvalda un jāapstrādā, kā arī lietotāju skaita prasības pakāpeniski palielinās, arhitektūrai jābūt viegli paplašināmai;
* paplašināmība – arhitektūrai jāspēj uzņemt jaunas lietojumsistēmas un tehnoloģijas tā, lai nebūtu jāpārprojektē visa sistēma;
* piekļuves drošības uzraudzība – tā kā datu noliktavā glabājas uzņēmuma stratēģiskie dati, šis ir ļoti svarīgs faktors;
* administrējamība – datu noliktavas pārvaldība jāprojektē tā, lai tā būtu pēc iespējas vienkāršāka [10].

Vairāku gadu laikā, attīstoties datu noliktavām, tiek izdalīti vairāki datu noliktavu arhitektūru tipi. Tie ir atšķirīgi gan pēc tā, kā dati tiek glabāti, gan pēc relācijām starp datu noliktavu un datuvēm.



*1.4. att.* Datu noliktavas arhitektūru tipi

***Centralizēta datu noliktava***

Centralizētas datu noliktavas arhitektūras tips (skat. att. 1.4. - adaptēts un latviskots no [4]) ņem vērā individuālās uzņēmuma līmeņa informācijas glabāšanas un lietošanas veidu prasības. Tiek izveidota vispārējā infrastruktūra, kur normalizēti dati zemākajā detalizācijas pakāpē tiek glabāti trešajā normālformā, taču dažkārt tiek iekļauti arī apkopotie dati. Vaicājumi un lietojumsistēmas normalizētajiem datiem piekļūst no centrālās datu noliktavas. Šajā arhitektūrā nepastāv atsevišķas datuves [4].

***Neatkarīgas datuves***

Datu noliktavas tips, kur visa pamatā ir neatkarīgas datuves (skat. att. 1.4. - adaptēts un latviskots no [4]) raksturīgs uzņēmumiem, kur dažādas organizatoriskās vienības izstrādā paši savas datuves saviem specifiskiem mērķiem. Lai arī katra datuve paredzēta konkrētai organizatoriskajai vienībai, šīs atsevišķās datuves nesniedz vienu vienīgu patieso versiju. Datuves savā starpā ir neatkarīgas, kā rezultātā datu definīcijas un standarti var nebūt konsekventi. Šādas atšķirības var kavēt datu analīzi starp datuvēm [4]. Piemēram, ja sistēmā ir divas neatkarīgas datuves, viena klientiem, bet otra – pārdošanas datiem, klientu un pārdošanas datus kopā analizēt ir sarežģīti, neskatoties uz to, ka būtībā pārdošanas un klienti ir savā starpā cieši saistīti subjekti. Tomēr bieži vien šāda pieeja tiek aizstāta ar citām arhitektūrām, kas ir ērtākas datu integrācijai un atskaišu ģenerēšanai [8].

***Apvienotais tips***

Dažkārt uzņēmumiem, pirms tie sāk datus glabāt datu noliktavā, ir jau pastāvošas lēmumu pieņemšanas struktūras dažādu sistēmu, jau iegūtu datu kopu vai pirmitīvu datuvju formā. Šādā gadījumā nav saprātīgi esošos datus dzēst, tāpēc tiek izmantots apvienotais arhitektūras tips (skat. att. 1.4. - adaptēts un latviskots no [4]), kurā datus iespējams apvienot gan fiziski, gan loģiski, izmantojot dažādus atslēgu laukus, metadatus, vaicājumus un citus mehānismus. Šim arhitektūras tipam nav vienas vispārējas datu noliktavas [4].

***Zvaigžņveida (angļu val. “hub-spoke”)***

Līdzīgi kā centralizētās datu noliktavas arhitektūrā, arī šeit pastāv uzņēmuma mēroga kopīga datu noliktava. Zvaigžņveida datu noliktavas arhitektūrai (skat. att. 1.4. - adaptēts un latviskots no [4]) raksturīgs tas, ka dati trešajā normālformā tiek glabāti centralizētā datu noliktavā, taču galvenais ieguvums šādai arhitektūrai ir tāds, ka tiek ieviestas datuves, kuras tiek aizpildītas no datu noliktavas. Datuves var tikt veidotas visdažādākajām vajadzībām: analītikai, vaicājumiem, datu ieguvei u.c. Visbiežāk vaicājumu izpildei tiek izmantotas tieši datuves nevis pati datu noliktava [4].

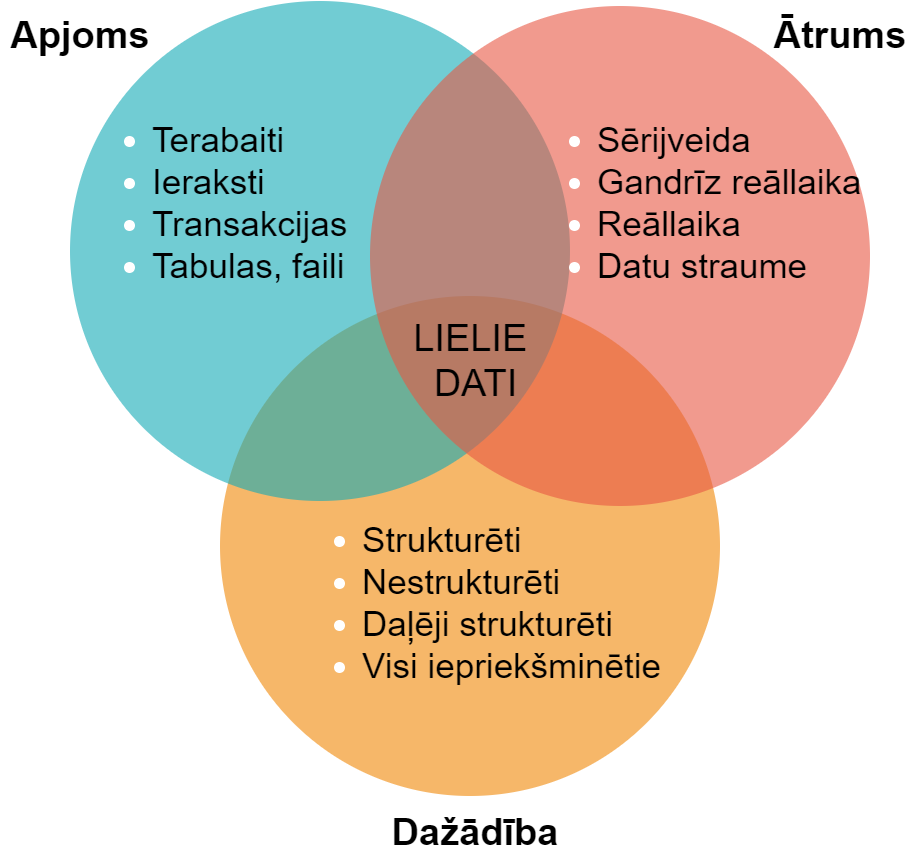
***Datuvju kopne***

Šīs arhitektūras (skat. att. 1.4. - adaptēts un latviskots no [4]) būvēšanas sākumā nepieciešams izanalizēt prasības konkrētajam biznesa subjektam un pēc tam, balstoties uz iegūtajām uzņēmējdarbības dimensijām, tiek būvēta pirmā datuve. Pēc tam iegūtās dimensijas tiek izmantotas arī būvējot pārējās datuves [4]. Šāda pieeja nodrošina loģisku datuvju integrāciju, kas rezultējas ar iespēju iegūt plašu skatījumu uz analizēto informāciju [8].

* 1. Lielie dati

Astoņdesmito gadu beigās, kad pasaulē tika ieviesta datu noliktavas koncepcija, radās iespēja veikt plašu spektru ar datu manipulācijām - veikt vēsturisko datu analīzi, paredzēt turpmāko datu virzību, novērot dažādas tendences ilgākos laika posmos. Deviņdesmito gadu vidū, popularizējoties jēdzienam “internets”, ikdienā iegūto un glabāto datu apjoms eksponenciāli pieauga, kas šī gadsimta sākumā iezīmēja pavisam jaunas tendences. Pasaulē ienāca meklētājprogrammas, dažādi mobilie risinājumi, sociālie tīkli un citas vēl nebijušas tehnoloģijas, kas būtiski palielināja glabāto datu apjomu.

Jauni biznesa modeļi un iespējas, kas radās līdz ar datu apjoma palielināšanos, izraisīja nepieciešamību pēc jaudīgiem risinājumiem, kas, analizējot iegūtos datus, spētu piedāvāt personalizētus risinājumus tā brīža vajadzību apmierināšanai. Tādas kompānijas kā *Google, Yahoo, Facebook* u.c. jau kopš pašiem pirmsākumiem investējušas tehnoloģisko risinājumu attīstīšanā, sniedzot iespēju ikdienā strādāt ar milzīgu daudzumu dažādu formātu datiem, lai izveidotu jaudīgu stratēģisku lēmumu pieņemšanas atbalsta platformu [11]. Līdz ar šīm pārmaiņām tika ieviests lielo datu (angļu val. “*big data*”) jēdziens.



*1.5. att.* Lielo datu raksturlielumi

Lielos datus var definēt kā liela apjoma datu kopumus dažādās sarežģītības pakāpēs, kas ģenerēti ar dažādu ātrumu un neskaidrības pakāpi. Šādus datus nevar apstrādāt, izmantojot tradicionālās metodes, tehnoloģijas un algoritmus [11]. Lai raksturotu lielos datus, bieži vien tiek izmantots “trīs V” princips: apjoms (angļu val. “*volume*”), ātrums (angļu val. “*velocity*”) un dažādība (angļu val. “*variety*”) (skat. att. 1.5. ) [12].

***Apjoms***

Datu apjoms tiek noteikts pēc tā, cik daudz datu tiek nepārtraukti ģenerēts. Liela apjoma datus sastāda dažādu iekārtu radītie dati (gan ikdienā lietojamo, gan industriālo), lietojumsistēmu žurnalēšanas, klikšķu secības, globālās pozicionēšanas sistēmas (GPS) un vēl dažādu citu veidu dati [11]. Ikdienā saglabāto datu apjoms laika gaitā ir ievērojami palielinājies. 2000.gadā visā pasaulē saglabāti dati, kas aizņem ap 800 000 petabaitu, taču 2020.gadā plānots, ka šis skaitlis palielināsies līdz pat 35 zetabaitiem. Piemēram, *Facebook* dienā saražo ap 10 terabaitiem datu, *Twitter* – 7 terabaitus, kā arī eksistē uzņēmumi, kas vairākus terabaitus datu saražo ik stundu [13].

***Ātrums***

Lielo datu ātruma raksturlielumu var definēt kā lietojumsistēmas spēju nepārtraukti apstrādāt datu plūsmu konkrētā ātrumā. Šis ātrums kļūst par kritisku raksturlielumu, ja datus nepieciešams analizēt gandrīz reāllaikā [13].

***Dažādība***

Ļoti reti dati tiek iegūti sakārtoti un gatavi tūlītējai apstrādei. Pārsvarā dati ir ļoti dažādi un tos sākotnēji nav iespējams pielāgot nekādai konkrētai struktūrai. Piemēram, teksti sociālajos tīklos, attēli, neapstrādāti sensoru dati nebūs iekļaujami vienā un tajā pašā struktūrā [12]. Lai lielo datu sistēma spētu apstrādāt jaunus datu formātus, tai jāpiemīt sekojošām īpašībām:

* mērogojamība – jaunu datu formātu pievienošanai nav nepieciešama sistēmas pārprojektēšana;
* dalītā datu apstrāde - apstrādes, uzglabāšanas un vadības funkcijas, kā arī ievadizvades funkcijas ir sadalītas starp vairākām attālām datu apstrādes sistēmām [14].
* attēlu apstrādes iespējas – attēlu apstrāde būtiski atšķiras no dažādu citu datu avotu apstrādes, jo tie ir pilnīgi nestrukturēti dati [11].

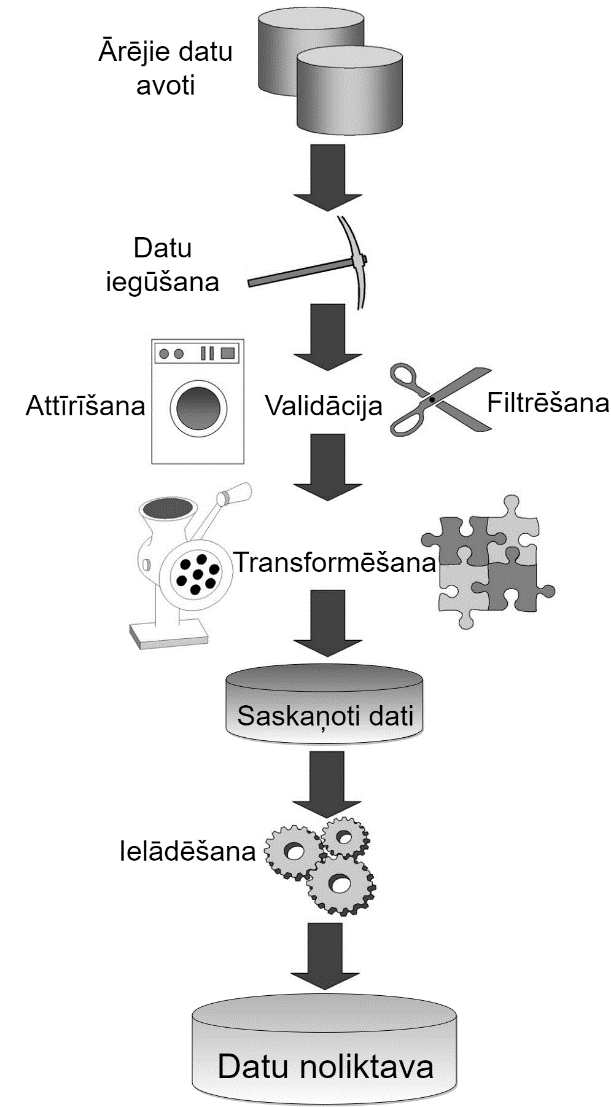
Papildus iepriekšminētajām pamatīpašībām (apjoms, ātrums un dažādība) mūsdienās izdalītas arī tādas papildus īpašības kā ticamība, nepastāvība, kvalitāte, neskaidrība, izturība un izplatība [11, 13].

Apstrādājot datus, jārēķinās ar visām iepriekšminētajām lielo datu īpašībām. Lai dažādas struktūras, apjoma un kvalitātes datus novietotu datu noliktavā tālākai analīzei, tiek veidoti ETL (angļu val. “*extract, transform, load*”) procesi, kas aprakstīti nodaļā 1.3.

* 1. ETL procesi

ETL procesi nodrošina datu ievākšanu no dažādiem datu avotiem, transformēšanu vienotā struktūrā un ielādēšanu datu noliktavā tālākai izmantošanai. Sistēmas ETL procesiem ir vairākas funkcijas:

* datu loģiskā pārveidošana;
* datu avota domēna pārbaude;
* konvertēšana no vienas DBPS uz citu;
* noklusējuma vērtību izveidošana;
* datu apkopošana;
* laika vērtību pievienošana;
* datu pārstrukturēšana;
* ierakstu apvienošana;
* nevajadzīgu vai lieku datu dzēšana [7].



*1.6. att.* ETL procesi datu pārveidošanā ievietošanai datu noliktavā

ETL procesi ir kā pāreja starp datiem no dažādiem ārējiem datu avotiem uz datu noliktavu (skat. att. 1.6.). Kad dati iek iegūti, tos nepieciešams attīrīt no nevajadzīgiem un liekiem ierakstiem, filtrēt, kāda informācija tieši ir nepieciešama, kā arī validēt datus, ja tas nepieciešams un iespējams. Pēc tam seko datu transformēšana, kur ar noteiktām formulām un atsevišķiem procesiem neviendabīgi dati tiek pārveidoti par konsekventas struktūras saskaņotiem datiem. Un tikai tad, kad dati ir sastrukturizēti, tos iespējams ievietot datu noliktavā. Sīkāk par katru no ETL procesu soļiem skatīt nodaļās 1.3.1., 1.3.2. un 1.3.3.

* + 1. Ievākšana

Datu ievākšanas fāze galvenokārt attiecas uz dažādu tehnisko jautājumu risināšanu, kas saistīti ar neviendabīgiem datiem, kā arī datu importēšanu sistēmā tālākai to apstrādei [15]. Pie šīs fāzes pieder arī datu attīrīšana (angļu val “*data cleansing*”), kuras laikā tiek atklātas un novērstas kļūdas un nepilnības datos, lai uzlabotu to kvalitāti. Datu noliktavās nepārtraukti tiek ielādēts milzīgs datu daudzums no dažādiem datu avotiem, tāpēc ir liela varbūtība, ka daļa datu būs neatbilstoši vai nederīgi. Tā kā datu noliktavas tiek izmantotas dažādu stratēģisku lēmumu pieņemšanai, dublēta vai trūkstoša informācija var radīt nepareizu vai maldinošu priekšstatu par esošo situāciju. Lai arī datu attīrīšana tiek plaši izmantota, daudzo iespējamu datu neatbilstību veidu un milzīgā datu apjoma dēļ datu tīrīšana tiek uzskatīta par vienu no lielākajām ar datu noliktavām saistītajām problēmām [16].

* + 1. Transformācija

Datu transformācijas fāzē tie tiek pārveidoti, piemērojot nepieciešamos uzņēmējdarbības virzienā noteiktos noteikumus un apstrādājot datu saturu, lai iegūtu viendabīgu datu struktūru. Šajā fāzē tiek izpildītas vairākas darbības, līdz ar to šī fāze ātri var kļūt grūti pārvaldāma. Pēc katras no izpildītajām datu transformācijas darbībām tiek iegūts straprezultāts (tipiski tie ir kādi jauni metadati vai transformētas datu kopas [11].

Būtībā datu transofrmācijas fāzē tiek atrisināta datu neviendabīguma problēma. Par neviendabīgiem sauc jebkādus datus, kuriem ir dažādi datu tipi un formāti [2], bet datu noliktavu kontekstā tie ir dati, kuri ir iegūti no atšķirīgiem datu avotiem, taču tiek uzkrāti un attēloti vienotā stilā [3]. Pamatuzdevi datu transformēšanai ir sekojoši:

* atlase – tiek izvēlēti pilni ieraksti vai daļa no tiem, kurus nepieciešams transformēt;
* sadalīšana un apvienošana – izvēlēto ierakstu dati tiek sadalīti sīkāk vai apvienoti kopā (datu noliktavu kontekstā biežāk izmantota tieši apvienošana);
* konvertācija – tiek veiktas plašas datu lauku izmaiņas, lai standartizētu datu ieguvi no atšķirīgiem datu avotiem, kā arī lai datu lauku vērtības būtu saprotamas gala lietotājiem;
* apkopošana – daļā gadījumu datu noliktavā nav nepieciešams glabāt datus zemākajā detalizācijas pakāpē, tāpēc vairāki lauki tiek apkopoti, par pamatu ņemto kādu konkrētu uzņēmējdarbības subjektu;
* bagātināšana – nepieciešamības gadījumā dati tiek dublēti, lai datu noliktavas kontekstā iegūtu daudzveidīgāku skatījumu uz izvēlēto uzņēmējdarbības subjektu [4].
  + 1. Ievietošana datu noliktavā

Datu ielādēšanas posmā dati tiek ievietoti datu noliktavas tabulās. Datu noliktavās tiek izmantoti dažādi indeksēšanas mehānismi un partīciju dalīšanas metodes, tādēļ šī fāze var aizņemt daudz laika [17].

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*1.7.att.* Datu ievietošanas datu noliktavā veidi

Pirms nonākšanas datu noliktavā dati atrodas izstādīšanas fāzē (angļu val. “*stanging phase*”), kur tie tiek transformētai. Pēc tam datu noliktavā dati var tikt ievietoti četros pamatveidos (skat. att. 1.7. - adaptēts un latviskots no [4]):

* ielādēšana;
* pievienošana;
* destruktīva apvienošana;
* konstruktīva apvienošana.

***Ielādēšana***

Ja gan mērķa tabula, gan dati tabulā jau eksistē, ielādēšanas process nodzēš eksistējošos datus un aizvieto tos ar ienākošajie. Ja tabulas pirms datu ielādēšanas ir tukšas, tie vienkārši tiek pievienoti tabulai [4].

***Pievienošana***

Ja tiek veikta datu pievienošana, tabulā eksistējošie dati tiek saglabāti un ienākošie vienkārši pievienoti tabulai. Iespējams integrēt apstrādes ierakstiem, kas dublējas (dublikātu saglabāšana vai dzēšana) [4].

***Destruktīvā apvienošana***

Šis datu ievietošanas veids pārbauda ievietojamo un eksistējošo datu atslēgas. Ja pastāv ieraksts ar konkrēto atslēgu, tas tiek atjaunināts. Pretējā gadījumā tabulai tiek pievienots jauns ieraksts [4].

***Konstruktīvā apvienošana***

Konstruktīvās apvienošanas datu ievietošanas veids līdzinās destruktīvajai apvienošanai. Atšķirība ir tāda, ka šeit, konstatējot meklētās atslēgas eksistenci, esošais ieraksts tiek atstāts tabulā, bet jaunais ieraksts pievienots un atzīmēts kā veco ierakstu aizstājošs [4].

1. Datu avotu evolūcijas sistēma
   1. Arhitektūra
   2. Sistēmas komponentes
   3. Izmaiņu noteikšana un apstrāde
2. Evolūcijas apstrādes mehānisms

Lai apstrādātu datu avotu evolūcijas rezultātā radušās izmaiņas un veiksmīgi adaptētu tās sistēmā, nepieciešams izstrādāt mehānismu, kurš darbojas, balstoties uz dažādiem metadatiem:

* dati par radušos izmaiņu;
* dati par manuāli veicamajām darbībām;
* dati par automātiski izpildāmām darbībām;
* kopējie izmaiņu adaptācijas scenāriji;
* izstrādātāja pievienotie papildus dati;
* scenāriju zarošanās nosacījumi.

Tāpat kā jau esošās sistēmas metadatu glabāšanas mehānisms, arī evolūcijas apstrādes mehānisms izstrādāts, izmantojot *Oracle SQL* relāciju datu bāzi.

* 1. Evolūcijas apstrādes metadati un to glabāšana

Evolūcijas metadatu glabāšanai datu bāze papildināta ar vairākām tabulām, kuras ar esošajām sistēmas tabulām saistītas ar ārējām atslēgām. Lai realizētu evolūcijas metadatu glabāšanu, nepieciešamas trīs esošās sistēmas tabulas. Tabulā *Change* glabājas informācija par identificētajām izmaiņām, kā arī, apstrādājot šīs tabulas ierakstus, iespējams noteikt, kāda tipa izmaiņa ir radusies. Uz šīs tabulas ierakstu balstās viss kopējais izmaiņas adaptācijas scenārijs un scenārija izpildes procesa apraksts. Tabulā *Author* glabājas informācija par sistēmas lietotājiem. Šī tabula izmantota, lai identificētu, kurš lietotājs darbojies ar konkrētas izmaiņas adaptāciju sistēmā. Savukārt tabula *Type* sistēmā izmantota kā klasifikators, kurš nosaka dažādu sistēmā izmantoto vienumu tipus. Evolūcijas mehānisma realizācijai izveidoti vairāki jauni tipi un apakštipi, kas paredzēti dažādu statusu un datu veidu glabāšanai jaunizveidotajās tabulās.

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*2.8. att.* Evolūcijas apstrādes metadatu glabāšanai paredzētās datu bāzes shēma

Attēlā 2.1. redzama nepieciešamā datu bāzes shēma, lai glabātu datu avotu evolūcijas apstrādes metadatus. Ar raustīto līniju apzīmētas esošās sistēmas tabulas.

Izmaiņu adaptācijas scenāriju un veicamo darbību glabāšanai paredzētas tabulas *ChangeAdaptionOperation*, *ChangeAdaptionScenario*, kurās jau pirms izmaiņas rašanās glabājas katram izmaiņu veidam aprakstīti to adaptācijas scenāriji. Šo tabulu aizpildīšana ir manuāls darbs. Arī tabulā *ChangeAdaptationProcess* glabājas izmaiņas adaptācijas scenāriji, taču šī tabula tiek aizpildīta automātiski adaptācijas procesa laikā – ieraksti tiek ievietoti tikai tad, kad ir notikusi reāla izmaiņa un tiek glabāta informācija par katras atsevišķas izmaiņas adaptācijas procesu.

Lai glabātu scenāriju zarošanās nosacījumus un pārvaldītu nosacījumu izpildi, paredzētas tabulas *ChangeAdaptationCondition*, *CA\_ConditionMapping*, kur glabājas katram izmaiņu veidam jau iepriekš aprakstīti darbību nosacījumi. Šīs tabulas aizpildīšana ir manuāls darbs. Savukārttabula *CA\_ManualConditionFulfillment* tiek aizpildīta automātiski konkrētas izmaiņas adaptācijas procesa laikā. Ja izmaiņu adaptācijas laikā nepieciešama kāda papildus informācija no izstrādātāja, tā tiek saglabāta tabulā *ChangeAdaptationAdditionalData.* Sīkāk tabulu struktūra aprakstīta nodaļās 2.1.1., 2.1.2. un 2.1.3.

* + 1. Izmaiņu adaptācijas scenāriji un operācijas

Izmaiņu adaptācijas operācijas ir darbības jeb soļi, kas jāveic, lai adaptētu izmaiņas sistēmā. Tās ir iespējami īsas un universālas.

*2.1. tabula*

Datu bāzes tabula *ChangeAdaptationOperation*

|  |  |  |  |
| --- | --- | --- | --- |
| **Kolonnas nosaukums** | **Datu tips** | **Obligāts** | **Ierobežojums** |
| CAO\_ID | number(10,0) | Jā | Primārā atslēga |
| CAO\_OPERATIONTYPE\_ID | varchar2(10 byte) | Jā | Ārējā atslēga |
| CAO\_OPERATION | varchar2(4000 byte) | Jā | Nav |

Katra no darbībām tiek glabāta kā ieraksts tabulā *ChangeAdaptationOperation* (tabulas aprakstu skat. tabulā 2.1.). Darbībai ir tips, kas norāda uz to, vai darbība ir manuāli veicama (šādā gadījumā tabulā glabājas tekstuāls apraksts ar to, kas izstrādātājam jāveic, lai paveiktu darbību) vai automātiski izpildāma (šajā gadījumā tabulā glabājas izpildāmās procedūras nosaukums). Vairākas dažādu tipu izmaiņu adaptāciju veikšanai izmantotās darbības pārklājas, tāpēc tās tiek glabātas atsevišķā tabulā, lai novērstu informācijas dublēšanos datu bāzē.

Izmaiņu adaptācijas scenārijs ir secīgu darbību virkne, kas tiek veikta, lai veiksmīgi adaptētu izmaiņu sistēmā. Katram no izmaiņu veidiem ir atšķirīgs izmaiņu adaptācijas scenārijs.

*2.2. tabula*

Datu bāzes tabula *ChangeAdaptationScenario*

|  |  |  |  |
| --- | --- | --- | --- |
| **Kolonnas nosaukums** | **Datu tips** | **Obligāts** | **Ierobežojums** |
| CAS\_ID | number(10,0) | Jā | Primārā atslēga |
| CAS\_PARENTSCENARIO\_ID | number(10,0) | Jā | Ārējā atslēga |
| CAS\_CHANGETYPE\_ID | number(10,0) | Jā | Ārējā atslēga |
| CAS\_OPERATION\_ID | varchar2(10 byte) | Jā | Ārējā atslēga |

Katra scenārija soļi glabājas tabulā *ChangeAdaptationScenario* (tabulas aprakstu skat. tabulā 2.2.). Katrs no scenārija soļiem satur ārējo atslēgu uz adaptācijas darbību (tabulu *ChangeAdaptationOperation*), izmaiņas tipu, kā arī vecākieraksta identifikatoru – ārējo atslēgu uz šo pašu tabulu. Vecākieraksta identifikatora glabāšana nodrošina darbību secības uzturēšanu, kā arī atvieglo korekciju veikšanu (piemēram, pievienojot scenārija vidū kādu darbību, jārediģē tikai divi tabulas ieraksti, taču, ja secība tiktu glabāta kā kārtas skaitļi, jārediģē būtu gandrīz viss scenārijs).

Lai sekotu līdzi izmaiņu adaptācijas procesam un glabātu informāciju par katras darbības izpildi, nepieciešama tabula, kurā glabājas katrai reāli notikušai izmaiņai atbilstošais adaptācijas scenārijs.

*2.3. tabula*

Datu bāzes tabula *ChangeAdaptationProcess*

|  |  |  |  |
| --- | --- | --- | --- |
| **Kolonnas nosaukums** | **Datu tips** | **Obligāts** | **Ierobežojums** |
| CAP\_ID | number(10,0) | Jā | Primārā atslēga |
| CAP\_SCENARIO\_ID | number(10,0) | Jā | Ārējā atslēga |
| CAP\_DATETIME | timestamp(6) | Jā | Nav |
| CAP\_AUTHOR\_ID | number(10,0) | Jā | Ārējā atslēga |
| CAP\_STATUSTYPE\_ID | varchar2(10 byte) | Jā | Ārējā atslēga |
| CAP\_CHANGE\_ID | number(10,0) | Jā | Ārējā atslēga |

Tabula *ChangeAdaptationProcess* (tabulas aprakstu skat. tabulā 2.3.) glabā arējo atslēgu uz tabulu *ChangeAdaptationScenario*, kas nodrošina katras operācijas atšķiramību, kā arī ārējo atslēgu uz tabulu *Change,* lai identificētu, kura no izmaiņām tiek adaptēta. Lai sekotu līdzi izmaiņu adaptācijas procesam, tiek glabāts arī izpildāmās darbības statuss (darbība ir vai nav izpildīta), kā arī datums, laiks un lietotājs, kurš piedalījies šīs darbības izpildē.

* + 1. Izmaiņu adaptācijas scenāriju zarošanās nosacījumi

Neskatoties uz to, ka izmaiņas tips ir nosakāms jau pie tās rašanās, tas negarantē viennozīmīga izmaiņas adaptācijas scenārija esamību. Ir dažādi nosacījumi, kuru izpildes rezultātā scenārijs var zaroties. Tie var būt gan automātiski izpildāmi (šajā gadījumā sistēma pati nosaka, pa kuru no scenārija ceļiem nepieciešams virzīties), gan manuāli apstrādājami (šajā gadījumā izstrādātājam nepieciešams izvērtēt konkrēto situāciju un pieņemt lēmumu).

*2.4. tabula*

Datu bāzes tabula *ChangeAdaptationCondition*

|  |  |  |  |
| --- | --- | --- | --- |
| **Kolonnas nosaukums** | **Datu tips** | **Obligāts** | **Ierobežojums** |
| CAC\_ID | number(10,0) | Jā | Primārā atslēga |
| CAC\_CONDITON | varchar2(4000 byte) | Jā | Nav |
| CAC\_CONDITIONTYPE\_ID | number(10,0) | Jā | Ārējā atslēga |

Tāpat kā darbības, arī nosacījumi dažādu tipu izmaiņu adaptāciju veikšanā pārklājas, līdz ar to tie tiek glabāti atsevišķā tabulā *ChangeAdaptationCondition* (tabulas aprakstu skat. tabulā 2.4.). Katram ierakstam tiek glabāts nosacījuma tips (nosacījums ir manuāli vai automātiski izpildāms), kā arī pats nosacījums – ja tas ir manuāli izpildāms, tiek glabāts tekstuāls apraksts, kas jāizvērtē pašam izstrādātājam. Ja nosacījums ir automātiski izpildāms, tiek glabāts izpildāmās funkcijas nosaukums.

*2.5. tabula*

Datu bāzes tabula *CA\_ConditionMapping*

|  |  |  |  |
| --- | --- | --- | --- |
| **Kolonnas nosaukums** | **Datu tips** | **Obligāts** | **Ierobežojums** |
| CACM\_ID | number(10,0) | Jā | Primārā atslēga |
| CACM\_SCENARIO\_ID | number(10,0) | Jā | Ārējā atslēga |
| CACM\_CONDITION\_ID | number(10,0) | Jā | Ārējā atslēga |

Tā kā katrai no scenārija ietvaros izpildāmajām darbībām var būt vairāki nosacījumi, tabula *CA\_ConditionMapping* (tabulas aprakstu skat. tabulā 2.5.) tiek izmantota, lai nodrošinātu N:N saiti starp tabulām *ChangeAdaptationCondition* un *ChangeAdaptationScenario*.

Automātiski izpildāmos nosacījumus iespējams pārbaudīt pirms katras darbības veikšanas un tam nav nepieciešama izstrādātāja iejaukšanās, līdz ar to iespējams automātiski virzīties pa kādu no scenārijā paredzētajiem ceļiem. Tomēr, veicot manuālu nosacījuma apstrādi (izstrādātājs pieņem lēmumu par turpmāko scenārija gaitu), nepieciešams glabāt informāciju par to, kādu lēmumu ir pieņēmis izstrādātājs, lai šis lēmums tiktu ņemts vērā visā izmaiņas adaptācijas procesā.

*2.6. tabula*

Datu bāzes tabula *CA\_ManualConditionFulfillment*

|  |  |  |  |
| --- | --- | --- | --- |
| **Kolonnas nosaukums** | **Datu tips** | **Obligāts** | **Ierobežojums** |
| CAMCF\_ID | number(10,0) | Jā | Primārā atslēga |
| CAMCF\_CONDITION\_ID | number(10,0) | Jā | Ārējā atslēga |
| CAMCF\_CHANGE\_ID | number(10,0) | Jā | Ārējā atslēga |
| CAMCF\_FULFILLMENTSTATUS\_ID | varchar2(10 byte) | Jā | Ārējā atslēga |

Lēmumu glabāšanai izmantota tabula *CA\_ManualConditionFulfillment* (tabulas aprakstu skat. tabulā 2.6.), kurā tiek glabāta ārējā atslēga uz tabulu *Change*, kā arī uz nosacījumu un nosacījuma izpildes statusu (nosacījums izpildīts vai nav izpildīts).

* + 1. Izmaiņu adaptācijas procesa papildus informācija

Izmaiņu adaptācijas procesa laikā no izstrādātāja var tikt prasīti dažādi papildus dati, kas būs nepieciešami tālāko scenāriju darbību izpildei un nosacījumu pārbaudei.

*2.7. tabula*

Datu bāzes tabula *ChangeAdaptationAdditionalData*

|  |  |  |  |
| --- | --- | --- | --- |
| **Kolonnas nosaukums** | **Datu tips** | **Obligāts** | **Ierobežojums** |
| CAAD\_ID | number(10,0) | Jā | Primārā atslēga |
| CAAD\_DATA\_TYPE\_ID | varchar2(10 byte) | Jā | Ārējā atslēga |
| CAAD\_CHANGE\_ID | number(10,0) | Jā | Ārējā atslēga |
| CAAD\_DATA | clob | Jā | Nav |

Šiem papildus datiem tiek izmantota tabula *ChangeAdaptationAdditionalData* (tabulas aprakstu skat. tabulā 2.7.), kas glabā ārējo atslēgu uz tabulu *Change*, datu tipu (informācija par to, kādam nolūkam izmantojami papildus dati), kā arī pāši glabājamie dati. Glabājamo datu formāts atkarīgs no datu veida. Piemēram, glabājot tikai identifikatoru, tas būs vienkāršs skaitlis, taču iespējamas situācijas, kad dati būs kādā citā formātā (JSON, XML u.c.), tāpēc izmantots universāls datu tips CLOB, kam ir liela ietilpība.

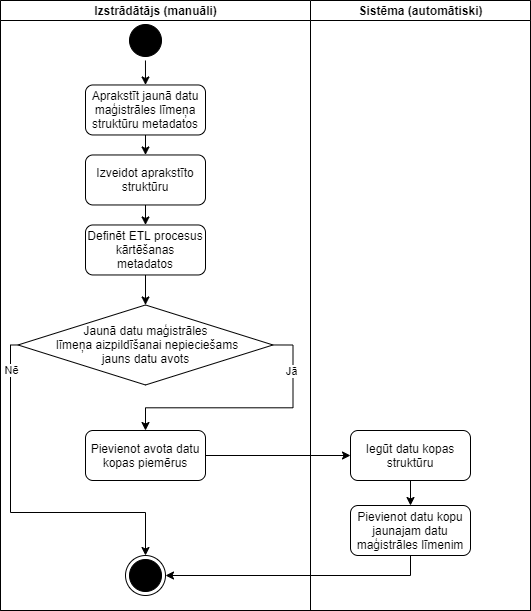
* 1. Izmaiņu adaptācijas scenāriji

Katras izmaiņas adaptācijai sistēmā atbilst scenārijs jeb veicamo darbību kopums, kas nepieciešams izmaiņas veiksmīgai apstrādei. Darba ietvaros netiek apskatīti visu iespējamo izmaiņu apstrādes scenāriji. Katra izstrādātā scenārija mērķis ir panākt, lai tas būtu pēc iespējas automātiski izpildāms (lai būtu nepieciešama pēc iespējas mazāka izstrādātāja iejaukšanās izmaiņu adaptācijas procesā), tomēr konceptuālu lēmumu pieņemšana par datu izmantošanu sistēmā nav iespējama bez cilvēka iejaukšanās.

Turpmākajās apakšnodaļās detalizēti aprakstīti 7 izmaiņu adaptācijas scenāriji.

* + 1. Datu maģistrāles līmeņa pievienošana

Lai pievienotu jaunu datu maģistrāles līmeni, izstrādātājam nepieciešams sagatavot gan jaunā datu maģistrāles līmeņa struktūras aprakstu, gan identificēt nepieciešamos ETL procesus, kā arī nepieciešamības gadījumā sagatavot datu kopu piemērus.

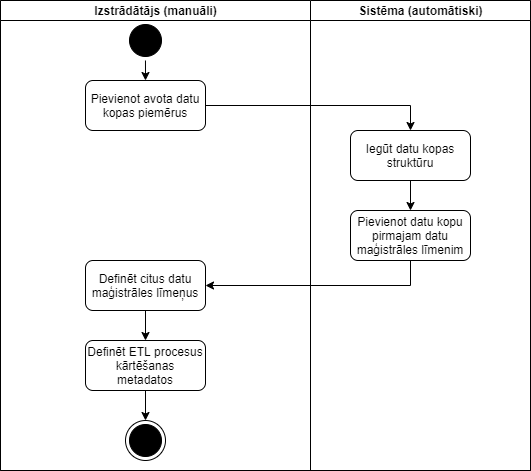


*9.2.att*. Datu maģistrāles līmeņa pievienošanas peldceliņu diagramma

Attēlā 2.2. iespējams apskatīt pilnu datu maģistrāles līmeņa pievienošanas scenāriju. Kā redzams, lielākā daļa darbību ir veicamas manuāli no izstrādātāja puses, taču sistēma automātiski spēj iegūt datu kopas struktūru un pievienot to izveidotajam datu maģistrāles līmenim.

* + 1. Datu avota pievienošana

Lai pievienotu jaunu datu avotu, izstrādātājam nepieciešams sagatavot datu kopu piemērus, lai būtu iespējams iegūt to struktūru, kā arī definēt datu maģistrāles līmeņus, kur tiks glabāti transformētie dati.

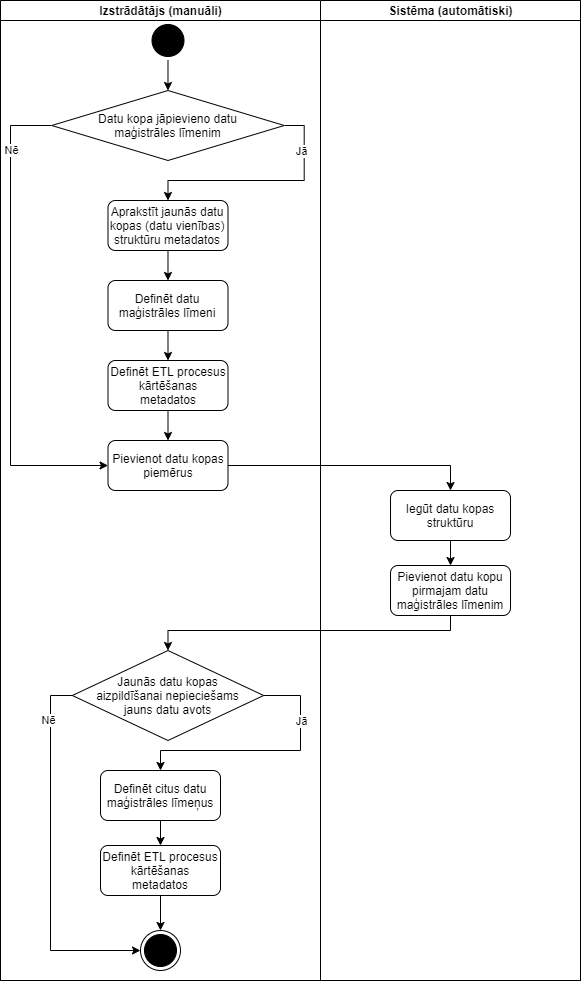


*2.10.att.* Datu avota pievienošanas peldceliņu diagramma

Kā redzams attēlā 2.3., vispirms izstrādātājs manuāli pievieno datu avota datu kopas piemērus un pēc tam uzreiz iespējams definēt citus datu maģistrāles līmeņus un ETL procesus. Datu kopas struktūru no pievienotajiem datu kopas piemēriem iespējams iegūt automātiski, kā rezultātā arī datu kopas pievienošana pirmajam datu maģistrāles līmenim ir automātiska.

* + 1. Datu kopas pievienošana

Datu kopas pievienošanas scenārijs lielā mērā ir atkarīgs no tā, vai izstrādātājs datu kopu vēlas pievienot datu maģistrāles līmenim vai esošam datu avotam.



*2.11. att.* Datu kopas pievienošanas peldceliņu diagramma

Pievienojot jaunu datu kopu (skat. att. 2.4.), jau sākumā tiek veikta pārbaude, kādai datu struktūrai jauno datu kopu nepieciešams pievienot. Ja datu kopa jāpievieno esošam datu avotam, tad adaptācijas process ir gandrīz pilnībā automātisks – izstrādātājam nepieciešams tikai pievienot datu kopu piemērus struktūras noskaidrošanai.

* + 1. Metadatu īpašības pievienošana

Metadatu īpašības pievienošana ir pilnībā manuāls process, tāpēc vienīgā scenārija darbība tiek norādīta kā informācija izstrādātājam, ka viņam nepieciešams izlemt par tālāko pievienotās īpašības izmantošanu.

* + 1. Datu vienības pievienošana

Datu vienības pievienošanas scenārijs pilnībā atkarīgs no tā, vai izstrādātājs datu vienību vēlas pievienot esošai datu kopai, kas atrodas kādā datu maģistrāles līmenī (izņemot pirmo datu maģistrāles līmeni) vai datu avota datu kopai.

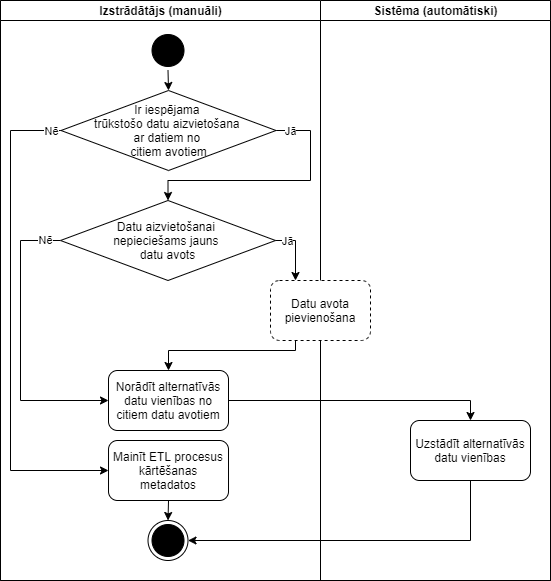
**

*2.12. att.* Datu vienības pievienošanas peldceliņu diagramma

Pievienojot jaunu datu kopu (skat. att.2.5.), jau sākumā tiek veikta pārbaude, kādai datu struktūrai jauno datu kopu nepieciešams pievienot. Ja datu vienība jāpievieno esošai datu kopai kādā datu maģistrāles līmenī (izņemot pirmo datu maģistrāles līmeni), izstrādātājam nepieciešams pievienot papildus informāciju un izdarīt lēmumus par pievienojamo datu vienību un ar to saistīto struktūru. Citādi process ir gandrīz automātisks – nepieciešams tikai pievienot datu vienības piemērus. Ar raustīto līniju apzīmēts datu avota pievienošanas scenārijs (skat. nodaļu 2.2.2.).

* + 1. Datu avota dzēšana

Lai dzēstu datu avotu, izstrādātājam nepieciešams izvērtēt, vai dzēšamā avota datu kopas datu vienības iespējams aizvietot ar datiem no citiem avotiem.

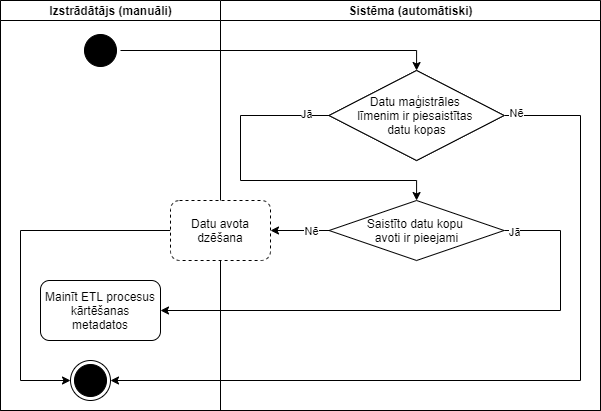


*2.13. att*. Datu avota dzēšanas peldceliņu diagramma

Datu avota dzēšanas procesā (skat. att. 2.6.) ietilpst arī datu avota pievienošana (attēlā atzīmēta ar raustīto līniju, skat. nodaļu 2.2.2.), ja ir iespējama datu avota aizvietošana ar datiem no citiem avotiem un nepieciešams jauns datu avots. Norādot alternatīvās datu vienības no citiem datu avotiem, tiek izveidots ieraksts tabulā *ChangeAdaptationAdditionalData*.

* + 1. Datu maģistrāles līmeņa dzēšana

Maģistrāles līmeņa dzēšana ir pavisam vienkāršs process, ja datu maģistrāles līmenis nav saistīts ar nevienu datu kopu. Šādā gadījumā nekādi adaptācijas procesi nav nepieciešami. Tomēr šādi gadījumi ir salīdzinoši reti un funkcionējošam datu maģistrāles līmenim jau ir piesaistītas kādas datu kopas.



*2.14. att.* Datu maģistrāles līmeņa dzēšanas peldceliņu diagramma

Datu maģistrāles līmeņa dzēšanas procesā (skat. att. 2.7.) iesaistīti arī automātiskie nosacījumi, kuru pārbaudei nav nepieciešama izstrādātāja iejaukšanās. Ar raustīto līniju apzīmēta datu avota dzēšana (skat. nodaļu 2.2.6.).

* 1. Evolūcijas apstrādes funkcionalitāte

Kad izmaiņu apstrādes scenāriji saglabāti tabulās *ChangeAdaptationOperation, ChangeAdaptationScenario, ChangeAdaptationCondition* un *CA\_ConditionMapping*, iespējams sākt izmaiņu apstrādi. Lai izmaiņu veiksmīgi adaptētu sistēmā, izstrādāta funkcionalitāte, kas, savācot tabulā *Change* saglabātos izmaiņas metadatus un izmantojot noteiktos apstrādes scenārijus, aizpilda pārējās evolūcijas apstrādei paredzētās tabulas un pēc iespējas mēģina pielietot automātiskos nosacījumus un darbības.

Tiek izdalīti divi evolūcijas apstrādes posmi:

* pimreizējā izmaiņas apstrāde – nosaka izmaiņas adaptācijas scenāriju un izveido sākotnējos ierakstus tabulās *ChangeAdaptationProcess* un *CA\_ManualConditionFulfillment*;
* scenārija izpilde – pēc iespējas tiek izpildīti automātiskie nosacījumi un operācijas, kā arī tabulā *ManualConditionFulfillment* saglabātas izstrādātāja manuālās izvēles un tabulā *ChangeAdaptationAdditionalData* saglabāti papildus dati, ja tādi nepieciešami.

Katrs no minētajiem evolūcijas apstrādes posmiem detalizēti aprakstīts nodaļās 2.3.1., 2.3.2. un 2.3.3.

* + 1. Pirmreizējā izmaiņas apstrāde

Pirmreizējā izmaiņas apstrādē tiek noteikts izmaiņas tips un atrasts izmaiņas tipam atbilstošais adaptācijas scenārijs. Katrai no scenārijā izpildāmajām darbībām tiek izveidots ieraksts tabulā *ChangeAdaptationProcess* ar statusu “Nav adaptēts”. Tiek saglabāts arī laiks, kad procesa solis izveidots, kā arī procesa soļa autors (šajā gadījumā tabulā *Author* jābūt definētam lietotājam “Sistēma”).

A close up of a map

Description automatically generated

*2.15.att.* Pirmreizējās izmaiņas apstrādes aktivitāšu diagramma

Veicot pirmreizējo izmaiņas apstrādi (skat. att. 2.9.), tiek apstrādātas tikai izmaiņas ar statusu “Jauns”. Nosakot izmaiņas tipu (izmaiņu tipus skatīt nodaļā 2.2.), pareizajā secībā tiek atlasīti visi izmaiņas tipam atbilstošie scenārija soļi, pēc kā izveidoti konkrētajai izmaiņai atbilstošie procesa soļi. Pēc tam tiek atlasīti konkrētajajam procesa solim atbilstošie scenārija soļu manuālie nosacījumi un saglabāti ar statusu “Nav izpildīts”. Līdz ar konkrētās izmaiņas procesu izveidošanu, izmaiņas statuss tiek nomainīts uz “Procesā”, līdz ar to šīs izmaiņas adaptāciju var uzskatīt par sākušos.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAExhdW1hAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM1OQAAkpIAAgAAAAM1OQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*2.16. att.* Pirmreizējās izmaiņas apstrādes programmkoda fragments

Attēlā 2.9. redzams programmkoda fragments algoritmam, kas veic pirmreizējo izmaiņu apstrādi. Funkcija *Define\_change\_type*, balstoties uz ierakstu tabulā *Change,* nosaka izmaiņas tipu (to iespējams noteikt, pārbaudot, kuri no tabulas *Change* laukiem ir aizpildīti). Katram no procesa soļiem tiek izsaukta funkcija *Insert\_change\_adaptation\_process*, kura ievieto atbilstošo ierakstu tabulā *ChangeAdaptationProcess*. Funkcijā *Insert\_manual\_condition\_fulfillment* tiek atlasīti scenārija solim atbilstošie manuālās izpildes nosacījumi un saglabāti tabulā *CA\_ManualConditionFulfillment*. Funkcija *Update\_change\_in\_progress* uzstāda izmaiņas statusu “Procesā”*­*.

* + 1. Scenārija iegūšana

Lai iegūtu konkrētajai izmaiņai atbilstošu scenāriju, jāņem vērā gan izpildāmās darbības, gan nosacījumi, kas attiecas uz katru no tām.

![A screenshot of text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAExhdW1hAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMyMwAAkpIAAgAAAAMyMwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*2.17.att.* Izmaiņai atbilstoša adaptācijas scenārija datu atlases vaicājums

Attēlā 2.10. redzams datu atlases vaicājums, kas paredzēts secīga konkrētās izmaiņas scenārija atlasei. Ieejas parametrs ir izmaiņas identifikators (attēlā 2.10. – *in\_change\_id*) Vaicājumā izmantota *Oracle* iebūvētā funkcija *Listagg*, kas ļauj vairāku atsevišķu ierakstu datus sarindot vienā kolonnā, atdalot tos ar izvēlēto atdalītāju. Šādā veidā tiek nodrošināta vieglāk lasāma informācija par katrai operācijai atbilstošajiem nosacījumiem.

* + 1. Scenārija izpilde

Scenārija izpilde ir balstīta uz nosacījumu pārbaudēm un uz darbību izpildes. Ja scenārija izpildei nepieciešama izstrādātāja iejaukšanās, algoritms tiek pārtraukts un turpināts tikai tad, kad izstrādātājs ir izdarījis savu izvēli par manuālajiem nosacījumiem vai izpildījis noteikto darbību.

![A screenshot of a social media post

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RCERXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQcOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAExhdW1hAAAB6hwABwAACAwAAAhiAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*2.18. att.* Scenārija izpildes programmkoda fragments

Attēlā 2.11. redzama datu bāzes procedūra *Run\_change\_adaptation\_scenario*, kas, ieejas parametrā saņemot izmaiņas identifikatoru, apstrādā izmaiņu. Vispirms ar funkciju *Get\_change\_adaptation\_scenario* tiek iegūts kursors ar pašu scenāriju. Šajā funkcijā tiek izmantots nodaļā 2.3.2. aprakstītais datu atlases vaicājums. Tālāk adaptācijas process tiek turpināts tikai tad, ja nepieciešams izpildīt automātisko darbību, kā arī atbilstošajiem nosacījumiem jābūt izpildītiem. Manuālie nosacījumi tiek pārbaudīti, izmantojot tabulu *CA\_ManualConditionFulfillment*. Automātisko nosacījumu pārbaudei tiek izmantots *Dynamic SQL*, kas ļauj no tabulas iegūto procedūras nosaukumu izpildīt kā procedūru, iekļaujot to “*execute immediate”* blokā. Pēc šī paša principa tiek izsauktas arī procedūras izmaiņu adaptācijas procesa soļu izpildei.

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PIELIKUMI

Bakalaura darbs „Neviendabīgu integrētu datu avotu evolūcijas apstrāde” izstrādāts LU Datorikas fakultātē.

Ar savu parakstu apliecinu, ka pētījums veikts patstāvīgi, izmantoti tikai tajā norādītie informācijas avoti un iesniegtā darba elektroniskā kopija atbilst izdrukai.

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Rekomendēju/nerekomendēju darbu aizstāvēšanai *(nederīgo svītro vadītājs)*

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Darbs iesniegts Datorikas fakultātē \_\_.06.2020.

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Darbs aizstāvēts bakalaura gala pārbaudījuma komisijas sēdē

\_\_\_\_.06.2020. prot. Nr. \_\_\_\_\_

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