CS-GY 6083 B PRNCPLS DATABASE SYSTEMS Final Project Part I Report

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Description:

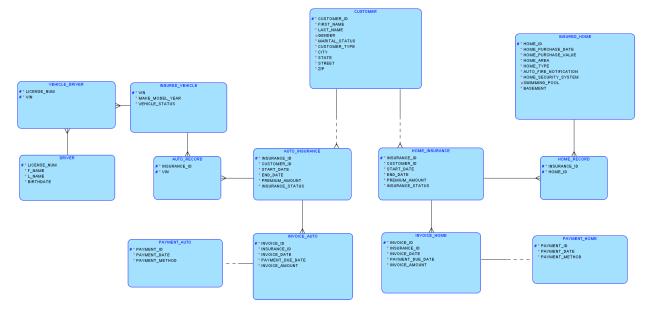
This design considers facts of insurance mechanism, achieving records of customer personal information and insurance information, also tracking the status of insurance and their insured objects. This design allows tracking multiple current insurances of one customer. More details are in assumptions.

Because of proxy error from Oracle Live SQL, we implement this on Oracle Cloud.

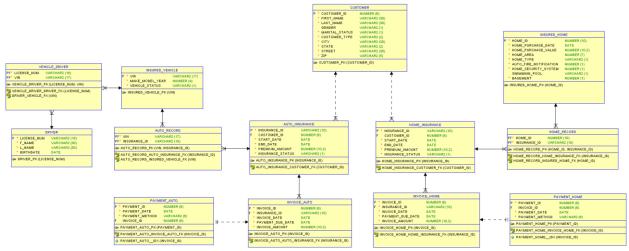
Assumptions:

- (1) Gender is optional (can be NULL) because customer can choose not to provide gender data.
- (2) A customer can have multiple insurances for different types, time periods, insured objects; also, a customer can have one or two insurance type. Thus customers' relationship with each type of insurance is mandatory one to optional many, and INSURANCE_ID for different types, time periods are different.
- (3) For customer type, it can be auto or home or both. We use "A" represents Automobile Insurance customer and "H" represents Home insurance customer, "B" represents both. By customer type, we can write view to check one or both types of insurance. If one has both types of insurance record but one type is expired, it will not be considered as "B".
- (4) A home insurance or auto insurance can have one or multiple insured objects so their relationships are both one to many.
- (5) A vehicle is corresponding to multiple drivers and a driver is possible to drive multiple vehicles in for different insurances, thus INSURED_VEHICLE has many-to-many relationship with DRIVER.
- (6) A customer can pay premium by installments and this is implemented by having multiple invoices, each invoice is corresponding to only one payment, it is like pay an assigned part of premium for each month. So INSURANCE entity has one-to-many relationship with INVOICE and INVOICE's relationship with PAYMENT is one to optional one. One invoice must only be generated after due of last invoice if paid by installments

Question (a)



Question (b)



Question (c)

Please see ddl.sql file in attachment.

Question (d)

Please see constraints.sql file in attachment.

Question (e)

Please see all_data.sql file in attachment.

Question (f)

List total number of records populated for each entity

```
1 --total number of records populated for CUSTOMER:
2 select COUNT(*)
3 from CUSTOMER;
         count(*)
 1
                          15
5 --total number of records populated for HOME_INSURANCE:
6 select COUNT(*)
7 from HOME_INSURANCE;
         count(*)
1
                          19
9 --total number of records populated for HOME_RECORD:
10 select COUNT(*)
11 from HOME_RECORD;
         count(*)
 1
                          22
12
13 --total number of records populated for INSURED_HOME:
14 select COUNT(*)
15 from INSURED_HOME;
16
         count(*)
                          22
 1
17 --total number of records populated for INVOICE_HOME:
18 select COUNT(*)
19 from INVOICE_HOME;
         count(*)
                          25
 1
```

```
21 --total number of records populated for PAYMENT_HOME:
22 select COUNT(*)
23 from PAYMENT_HOME;
24
            count(*)
                              24
   1
25 --total number of records populated for AUTO_INSURANCE:
26 select COUNT(*)
27 from AUTO_INSURANCE;
          count(*)
 1
                            16
29 --total number of records populated for AUTO_RECORD:
30 select COUNT(*)
31 from AUTO_RECORD;
          count(*)
 1
                             16
33 --total number of records populated for INSURED_VEHICLE:
34 select COUNT(*)
35 from INSURED_VEHICLE;
           count(*)
                              16
   1
37 --total number of records populated for VEHICLE_DRIVER:
38 select COUNT(*)
39 from VEHICLE_DRIVER;
           count(*)
  1
                             18
 41 --total number of records populated for DRIVER:
    select COUNT(*)
 43 from DRIVER;
 44
           count(*)
                              10
  1
 45 --total number of records populated for INVOICE_AUTO:
 46 select COUNT(*)
 47 from INVOICE_AUTO;
```

```
count(*)

1 18

40
49 --total number of records populated for PAYMENT_AUTO:
50 select COUNT(*)
51 from PAYMENT_AUTO;

count(*)

1 18
```

Question (g)

The query that details all tables, columns-datatype-size-mandatory/optional and attribute comments of schema objects: (screenshot from exported .csv file)

```
select a.table_name, a.column_name, a.data_type, a.data_length, a.data_precision, a.data_scale, a.nullable, b.comments
from user_tab_columns a, user_col_comments b
where a.table_name=b.table_name and a.column_name=b.column_name
order by a.table_name;
```

1	A	В	C	D	E	F	G	H
1	TABLE_NAME	COLUMN_NAME	DATA_TYPE	DATA_LENGTH	DATA_PRECISION	DATA_SCALE	NULLABLE	
2	AUTO_INSURANCE	START_DATE	DATE	7			N	
3	AUTO_INSURANCE	INSURANCE_STATUS	VARCHAR2	1			N	
4	AUTO_INSURANCE	PREMIUM_AMOUNT	NUMBER	22	10	2	N	
5	AUTO_INSURANCE	END_DATE	DATE	7			N	
6	AUTO_INSURANCE	INSURANCE_ID	VARCHAR2	10			N	
7	AUTO_INSURANCE	CUSTOMER_ID	NUMBER	22	8	0	Y	
8	AUTO_RECORD	INSURANCE_ID	VARCHAR2	10			N	
9	AUTO_RECORD	VIN	VARCHAR2	17			N	
10	CUSTOMER	ZIP	VARCHAR2	5			N	
11	CUSTOMER	STATE	VARCHAR2	2			N	
12	CUSTOMER	CUSTOMER_ID	NUMBER	22	8	0	N	
13	CUSTOMER	FIRST_NAME	VARCHAR2	30			N	
14	CUSTOMER	STREET	VARCHAR2	30			N	
15	CUSTOMER	GENDER	VARCHAR2	1			Y	
16	CUSTOMER	MARITAL_STATUS	VARCHAR2	1			N	
17	CUSTOMER	CUSTOMER_TYPE	VARCHAR2	2			N	
18	CUSTOMER	CITY	VARCHAR2	30			N	
19	CUSTOMER	LAST_NAME	VARCHAR2	30			N	
20	DRIVER	BIRTHDATE	DATE	7			N	
21	DRIVER	L_NAME	VARCHAR2	30			N	
22	DRIVER	F_NAME	VARCHAR2	30			N	
23	DRIVER	LICENSE_NUM	VARCHAR2	16			N	
24	HOME_INSURANCE	CUSTOMER_ID	NUMBER	22	8	0	Υ	
25	HOME_INSURANCE	INSURANCE_ID	VARCHAR2	10			N	
26	HOME_INSURANCE	START_DATE	DATE	7			N	
27	HOME_INSURANCE	END_DATE	DATE	7			N	
28	HOME_INSURANCE	PREMIUM_AMOUNT	NUMBER	22	10	2	N	

29 HOME_INSURANCE	INSURANCE_STATUS	VARCHAR2	1			N
30 HOME_RECORD	INSURANCE_ID	VARCHAR2	10			N
31 HOME_RECORD	HOME_ID	NUMBER	22	10		0 N
32 INSURED_HOME	BASEMENT	NUMBER	22	1		0 N
33 INSURED_HOME	SWIMMING_POOL	VARCHAR2	1			Y
34 INSURED_HOME	HOME_SECURITY_SYSTEM	NUMBER	22	1		0 N
35 INSURED_HOME	HOME_ID	NUMBER	22	10		0 N
36 INSURED_HOME	HOME_PURCHASE_DATE	DATE	7			N
37 INSURED_HOME	HOME_PURCHASE_VALUE	NUMBER	22	10		2 N
38 INSURED_HOME	HOME_AREA	NUMBER	22	7		0 N
39 INSURED_HOME	HOME_TYPE	VARCHAR2	1			N
10 INSURED_HOME	AUTO_FIRE_NOTIFICATION	NUMBER	22	1		0 N
11 INSURED_VEHICLE	VIN	VARCHAR2	17			N
12 INSURED_VEHICLE	VEHICLE_STATUS	VARCHAR2	1			N
43 INSURED_VEHICLE	MAKE_MODEL_YEAR	NUMBER	22	4		0 N
14 INVOICE_AUTO	INVOICE_AMOUNT	NUMBER	22	10		2 N
45 INVOICE_AUTO	INVOICE_ID	NUMBER	22	8		0 N
46 INVOICE_AUTO	PAYMENT_DUE_DATE	DATE	7			N
17 INVOICE_AUTO	INSURANCE_ID	VARCHAR2	10			N
48 INVOICE_AUTO	INVOICE_DATE	DATE	7			N
19 INVOICE_HOME	INSURANCE_ID	VARCHAR2	10			N
0 INVOICE_HOME	INVOICE_ID	NUMBER	22	8		0 N
1 INVOICE_HOME	PAYMENT_DUE_DATE	DATE	7			N
2 INVOICE_HOME	INVOICE_DATE	DATE	7			N
3 INVOICE_HOME	INVOICE_AMOUNT	NUMBER	22	10		2 N
4 PAYMENT_AUTO	PAYMENT_ID	NUMBER	22	8	0	N
55 PAYMENT_AUTO	PAYMENT_DATE	DATE	7			N
66 PAYMENT_AUTO	INVOICE_ID	NUMBER	22	8	0	Υ
7 PAYMENT_AUTO	PAYMENT_METHOD	VARCHAR2	6			N
8 PAYMENT_HOME	PAYMENT_DATE	DATE	7			N
9 PAYMENT_HOME	PAYMENT_METHOD	VARCHAR2	6			N
PAYMENT_HOME	PAYMENT_ID	NUMBER	22	8	0	N
PAYMENT_HOME	INVOICE_ID	NUMBER	22	8	0	Y
52 VEHICLE_DRIVER	LICENSE_NUM	VARCHAR2	16			N
53 VEHICLE_DRIVER	VIN	VARCHAR2	17			N

1 TABLE_NAME	COLUMN_NAME	COMMENTS
2 AUTO_INSURANCE	START_DATE	start date of auto insurance policy
3 AUTO_INSURANCE	INSURANCE_STATUS	auto policy insurance status
4 AUTO_INSURANCE	PREMIUM_AMOUNT	auto insurance premium amount
5 AUTO_INSURANCE	END_DATE	end date of auto insurance policy
6 AUTO_INSURANCE	INSURANCE_ID	Insurance ID of auto-mobile insurance, starts with "A", followed by 9 digits number
7 AUTO_INSURANCE	CUSTOMER_ID	
8 AUTO_RECORD	INSURANCE_ID	
9 AUTO_RECORD	VIN	
10 CUSTOMER	ZIP	Zip code
11 CUSTOMER	STATE	customers' state
12 CUSTOMER	CUSTOMER_ID	customer's id
13 CUSTOMER	FIRST_NAME	customer's first name
14 CUSTOMER	STREET	customers' street
15 CUSTOMER	GENDER	customer's gender, must be either "M", or "F" representing "Male" or "Female". If it is NULL, means not provided
16 CUSTOMER	MARITAL_STATUS	customer's marital status, the possible data value of marital status must be either "M", "S", or "W", representing "Married", "Single", and "Widow/Widower" respective
17 CUSTOMER	CUSTOMER_TYPE	customer type, can be auto or home or both. "A" represents Automobile Insurance customer and "H" represents Home insurance customer, "B" represents both.
18 CUSTOMER	CITY	customer's living city
19 CUSTOMER	LAST_NAME	customer's last name
20 DRIVER	BIRTHDATE	driver's birthdate
21 DRIVER	L_NAME	driver's last name
22 DRIVER	F_NAME	driver's first name
23 DRIVER	LICENSE_NUM	driver's license number
24 HOME_INSURANCE	CUSTOMER_ID	
25 HOME_INSURANCE	INSURANCE_ID	Insurance ID of home insurance, starts with "H", followed by 9 digits number
26 HOME_INSURANCE	START_DATE	start date of home insurance policy
27 HOME_INSURANCE	END_DATE	end date of home insurance policy
28 HOME_INSURANCE	PREMIUM_AMOUNT	home insurance premium amount

		the control of the co
29 HOME INSURANCE		home policy insurance status, "C" for current, "P" for expired
30 HOME RECORD	INSURANCE ID	
31 HOME_RECORD	HOME_ID	
32 INSURED HOME	BASEMENT	whether home has basement or not, 1 shands for yes, 0 stands for no
33 INSURED_HOME	SWIMMING_POOL	whether home has swimming pool or not and which kind of pool: "I" represents Indoor, "U" represents Underground, "O" represents Overground, "M" represents Multip
34 INSURED_HOME	HOME_SECURITY_SYSTEM	whether home has security system or not, 1 stands for yes, 0 stands for no
35 INSURED_HOME	HOME_ID	home ID
36 INSURED HOME	HOME_PURCHASE_DATE	home purchase date
37 INSURED HOME	HOME PURCHASE VALUE	home purchase value
38 INSURED_HOME	HOME AREA	home area in square feet
39 INSURED HOME	HOME TYPE	type of home, S,M,C,T representing Single family, Multi Family, Condominium, Town house respectively
40 INSURED HOME	AUTO FIRE NOTIFICATION	whether home has auto fire notification or not, 1 stands for yes, 0 stands for no
41 INSURED_VEHICLE	VIN	vehicle identification number
42 INSURED_VEHICLE	VEHICLE_STATUS	status of the vehicle, can be one of "L", "F", or "O" representing "Leased", "Financed", "and "Owned".
43 INSURED_VEHICLE	MAKE_MODEL_YEAR	vehicle make model year
44 INVOICE_AUTO	INVOICE_AMOUNT	invoice amount in usd
45 INVOICE_AUTO	INVOICE_ID	invoice id
46 INVOICE_AUTO	PAYMENT_DUE_DATE	payment due date
47 INVOICE_AUTO	INSURANCE_ID	
48 INVOICE_AUTO	INVOICE_DATE	date of invoice
49 INVOICE_HOME	INSURANCE_ID	
50 INVOICE HOME	INVOICE_ID	invoice id
51 INVOICE_HOME	PAYMENT_DUE_DATE	payment due date
52 INVOICE_HOME	INVOICE_DATE	date of invoice
53 INVOICE HOME	INVOICE AMOUNT	invoice amount in usd
51 INVOICE_HOME 52 INVOICE_HOME	PAYMENT_DUE_DATE	payment due date date of invoice
E4 DAVMENT AUTO	DAVACNIT ID	anneath D
54 PAYMENT_AUTO 55 PAYMENT AUTO	PAYMENT_ID PAYMENT DATE	payment's ID date of payment
56 PAYMENT_AUTO	INVOICE ID	uate or payment
the state of the s		and the standard of the standa
57 PAYMENT_AUTO	PAYMENT_METHOD	payment method: "PayPal", "Credit", "Debit", "Check"
58 PAYMENT_HOME	PAYMENT_DATE	date of payment
59 PAYMENT_HOME	PAYMENT_METHOD	payment method: "PayPal", "Credit", "Debit", "Check"
60 PAYMENT_HOME	PAYMENT_ID	payment's ID
61 PAYMENT_HOME	INVOICE_ID	
62 VEHICLE_DRIVER	LICENSE_NUM	
63 VEHICLE_DRIVER	VIN	

The query that details all constraints: (screenshot from exported .csv file)

```
59 --g
60 select table_name, constraint_name, constraint_type, search_condition, index_name, r_owner, r_constraint_name, delete_rule
61 from user_constraints
62 order by table_name;
63 |
```

CONSTRAINT_NAME	CONSTRAINT_TYPE	SEARCH_CONDITION	INDEX_NAME	R_OWNER	R_CONSTRAINT_NAME	DELETE_RUL
SYS_C0015768	C	"START_DATE" IS NOT NULL				
AUTO_INSURANCE_PK	P		AUTO_INSURANCE_PK			
A_INSUR_CUST_FK	R			ADMIN	CUSTOMER_PK	NO ACTION
SYS_C0015767	C	"INSURANCE_ID" IS NOT NULL				
SYS_C0015769	С	"END_DATE" IS NOT NULL				
SYS_C0015770	C	"PREMIUM_AMOUNT" IS NOT NULL				
C_AUTO_INSURANCE_INSURANCE_S	TATUS C	(INSURANCE_STATUS='C') or (INSURANCE_STATUS='P')				
SYS_C0015771	C	"INSURANCE_STATUS" IS NOT NULL				
SYS_C0015774	C	"INSURANCE_ID" IS NOT NULL				
A_RCD_INSURED_VHCL_FK	R			ADMIN	INSURED_VEHICLE_PK	NO ACTION
A_RCD_A_INSUR_FK	R			ADMIN	AUTO_INSURANCE_PK	NO ACTION
SYS_C0015773	С	"VIN" IS NOT NULL				
AUTO_RECORD_PK	P		AUTO_RECORD_PK			
BIN\$ovgou1PB/VHgU5IYAAr/HA==\$0	c	"INSURANCE_ID" IS NOT NULL				
BIN\$ovgou1PA/VHgU5IYAAr/HA==\$0	C	"HOME_ID" IS NOT NULL				
BIN\$ovgou1PC/VHgU5IYAAr/HA==\$0	P		BIN\$ovgou1PD/VHgU5IYAAr/HA==\$0			
BIN\$ovgou1PP/VHgU5IYAAr/HA==\$0	С	(AUTO_FIRE_NOTIFICATION=1) or (AUTO_FIRE_NOTIFICATION=0)				
BIN\$ovgou1PM/VHgU5IYAAr/HA==\$0	С	"BASEMENT" IS NOT NULL				
BIN\$ovgou1PR/VHgU5IYAAr/HA==\$0	С	(BASEMENT=1) or (BASEMENT=0)				
BIN\$ovgou1PS/VHgU5IYAAr/HA==\$0	С	(SWIMMING_POOL='U') or (SWIMMING_POOL='I') or (SWIMMING_POOL='I') or (SWIMMING_POOL='I') or (SWIMMING_POOL IS NULL)				
BIN\$ovgou1PQ/VHgU5IYAAr/HA==\$0	С	(HOME_SECURITY_SYSTEM=1) or (HOME_SECURITY_SYSTEM=0)				
BIN\$ovgou1PO/VHgU5IYAAr/HA==\$0	С	(HOME_TYPE='S') or (HOME_TYPE='M') or (HOME_TYPE='C') or (HOME_TYPE='T')				
BIN\$ovgou1PN/VHgU5IYAAr/HA==\$0	P		BIN\$ovgou1PT/VHgU5IYAAr/HA==\$0			
BIN\$ovgou1PF/VHgU5IYAAr/HA==\$0	С	"HOME_ID" IS NOT NULL				
BIN\$ovgou1PG/VHgU5IYAAr/HA==\$0	С	"HOME_PURCHASE_DATE" IS NOT NULL				
BIN\$ovgou1PL/VHgU5IYAAr/HA==\$0	С	"HOME_SECURITY_SYSTEM" IS NOT NULL				
BIN\$ovgou1PK/VHgU5IYAAr/HA==\$0	С	"AUTO_FIRE_NOTIFICATION" IS NOT NULL				

_				
29 BIN\$ovgou1PJ/VHgU5IYAAr/HA==\$0	С	"HOME_TYPE" IS NOT NULL		
5 BINGOVEGULFS/ VIIGOSITAGI/TIA==30		HOME_TIPE IS NOT NOTE		
BIN\$ovgou1PI/VHgU5IYAAr/HA==\$0	С	"HOME_AREA" IS NOT NULL		
1 BIN\$ovgou1PH/VHgU5IYAAr/HA==\$0 2 BIN\$ovgou1PW/VHgU5IYAAr/HA==\$0	C C	"HOME_PURCHASE_VALUE" IS NOT NULL "PAYMENT_DATE" IS NOT NULL		
BIN\$ovgou1PW/VHgU5IYAAr/HA==\$0 BIN\$ovgou1PV/VHgU5IYAAr/HA==\$0	C	"PAYMENT_ID" IS NOT NULL "PAYMENT_ID" IS NOT NULL		
4 BINSovgou1PZ/VHgU5IYAAr/HA==\$0	C	(PAYMENT_METHOD='PayPal') or (PAYMENT_METHOD='Credit') or (PAYMENT_METHOD='Debit') or		
5 BIN\$ovgou1PX/VHgU5IYAAr/HA==\$0	c	"PAYMENT_METHOD" IS NOT NULL		
6 BIN\$ovgou1PY/VHgU5IYAAr/HA==\$0	P		BIN\$ovgou1Pb/VHgU5IYAAr/HA==\$0	
7 BIN\$ovgou1Ph/VHgU5IYAAr/HA==\$0	С	"INVOICE_AMOUNT" IS NOT NULL		
8 BIN\$ovgou1Pg/VHgU5IYAAr/HA==\$0	С	"PAYMENT_DUE_DATE" IS NOT NULL		
9 BIN\$ovgou1Pf/VHgU5IYAAr/HA==\$0 0 BIN\$ovgou1Pd/VHgU5IYAAr/HA==\$0	C C	"INVOICE_DATE" IS NOT NULL "INVOICE ID" IS NOT NULL		
1 BIN\$ovgou1Pe/VHgU5IYAAr/HA==\$0	c	"INSURANCE_ID" IS NOT NULL		
Diregovgourrey viigositzwayta		M30NARCE_D 13 NOT NOEL		
2 BIN\$ovgou1Pi/VHgU5IYAAr/HA==\$0	P		BIN\$ovgou1Pj/VHgU5IYAAr/HA==\$0	
3 BIN\$ovgou1Pl/VHgU5IYAAr/HA==\$0	C	"LICENSE_NUM" IS NOT NULL		
4 BIN\$ovgou1Pn/VHgU5IYAAr/HA==\$0	P		BIN\$ovgou1Po/VHgU5IYAAr/HA==\$0	
5 BIN\$ovgou1Pm/VHgU5IYAAr/HA==\$0	C	"VIN" IS NOT NULL		
6 BIN\$ovgou1Pr/VHgU5IYAAr/HA==\$0	C C	"INSURANCE_ID" IS NOT NULL "VIN" IS NOT NULL		
7 BIN\$ovgou1Pq/VHgU5IYAAr/HA==\$0	-	VIIV 13 NOT NOLL		
8 BINSovgou1Ps/VHgU5IYAAr/HA==\$0	P		BIN\$ovgou1Pt/VHgU5IYAAr/HA==\$0	
9 BIN\$ovgwqSwTDyjgU5IYAAqcOQ==\$0	c	"PAYMENT_ID" IS NOT NULL		
0 BIN\$ovgwqSwUDyjgU5IYAAqcOQ==\$0	С	"PAYMENT_DATE" IS NOT NULL		
1 punt		BOAVASAY, ASTRUMBUS AND AUGUS		
1 BIN\$ovgwqSwVDyjgU5IYAAqcOQ==\$0	С	"PAYMENT_METHOD" IS NOT NULL (PAYMENT_METHOD='PayPal') or (PAYMENT_METHOD='Credit') or (PAYMENT_METHOD='Debit') or		
i2 BIN\$ovgwqSwXDyjgU5IYAAqcOQ==\$0	С	(PAYMENT_METHOD='PayPair') or (PAYMENT_METHOD='Credit') or (PAYMENT_METHOD='Debit') or (PAYMENT_METHOD='Check')		
But 2018 ad 2 av DANG CO C == 20		(ATTILLE _ METHOD - CHECK)		
3 BIN\$ovgwqSwWDyjgU5IYAAqcOQ==\$0	P		BIN\$ovgwqSwZDyjgU5IYAAqcOQ==\$0	
			7,0	
4 BIN\$ovgwqSweDyjgU5IYAAqcOQ==\$0	С	"PAYMENT_DUE_DATE" IS NOT NULL		
55 BIN\$ovgwqSwfDyjgU5IYAAqcOQ==\$0	c	"INVOICE_AMOUNT" IS NOT NULL		
_				
56 BIN\$ovgwqSwcDyjgU5IYAAqcOQ==\$0	С	"INSURANCE_ID" IS NOT NULL		
BIN\$ovgwqSwgDyjgU5IYAAqcOQ==\$0	P		BIN\$ovgwqSwhDyjgU5IYAAqcOQ==\$0	
8 BIN\$ovgwqSwbDyjgU5IYAAqcOQ==\$0	С	"INVOICE_ID" IS NOT NULL		
9 BIN\$ovgwqSwdDyjgU5IYAAqcOQ==\$0	С	"INVOICE_DATE" IS NOT NULL		
	С	"LICENSE NUM" IS NOT NULL		
60 BIN\$ovgwqSwjDyjgU5IYAAqcOQ==\$0		_		
1 BIN\$ovgwqSwkDyjgU5IYAAqcOQ==\$0	C	"F_NAME" IS NOT NULL		
i2 BIN\$ovgwqSwlDyjgU5IYAAqcOQ==\$0		"L_NAME" IS NOT NULL		
	С			
3 BIN\$ovgwqSwmDyjgU5IYAAqcOQ==\$0	c c	"BIRTHDATE" IS NOT NULL		
BIN\$ovgwqSwmDyjgU5IYAAqcOQ==\$0 BIN\$ovgwqSwoDyjgU5IYAAqcOQ==\$0	c c	*BIRTHDATE" IS NOT NULL F_NAME=upper(F_NAME)		
BIN\$ovgwqSwmDyjgU5IYAAqcOQ==\$0 BIN\$ovgwqSwoDyjgU5IYAAqcOQ==\$0	c c	"BIRTHDATE" IS NOT NULL		
BIN\$ovgwq\$wmDyjgU5IYAAqcOQ==\$0 BIN\$ovgwq\$woDyjgU5IYAAqcOQ==\$0 BIN\$ovgwq\$wpDyjgU5IYAAqcOQ==\$0	c c	*BIRTHDATE" IS NOT NULL F_NAME=upper(F_NAME)	BIN\$ovgwq\$wqDyjgU5IYAAqcOQ==\$0	
3 BINSovgwqSwmDyjgU5IYAAqcOQ==\$0 4 BINSovgwqSwoDyjgU5IYAAqcOQ==\$0 5 BINSovgwqSwpDyjgU5IYAAqcOQ==\$0 6 BINSovgwqSwnDyjgU5IYAAqcOQ==\$0	c c c	*BIRTHDATE" IS NOT NULL F_NAME=upper(F_NAME)	BIN\$ovgwq\$wqDyjgU5IYAAqcOQ==\$0	
3 BINSovgwqSwmDyjgUSIYAAqcOQ==\$0 4 BINSovgwqSwoDyjgUSIYAAqcOQ==\$0 5 BINSovgwqSwpDyjgUSIYAAqcOQ==\$0 6 BINSovgwqSwnDyjgUSIYAAqcOQ==\$0 7 BINSovgwqSwtDyjgUSIYAAqcOQ==\$0	C C C C	*BIRTHDATE* IS NOT NULL F_NAME=upper(f_NAME) L_NAME=upper(L_NAME)		
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3 BINSovgwqswmDyigUSIYAAqcOQ==\$0 4 BINSovgwqswmDyigUSIYAAqcOQ==\$0 5 BINSovgwqswpDyigUSIYAAqcOQ==\$0 6 BINSovgwqswpDyigUSIYAAqcOQ==\$0 8 BINSovgwqswnDyigUSIYAAqcOQ==\$0 9 BINSovgwqswnDyigUSIYAAqcOQ==\$0 9 BINSovgwqswwDyigUSIYAAqcOQ==\$0 10 BINSovgwqswwDyigUSIYAAqcOQ==\$0 10 BINSovgwqswwDyigUSIYAAqcOQ==\$0 10 BINSovgwqswwDyigUSIYAAqcOQ==\$0 20 BINSovgwqswbDyigUSIYAAqcOQ==\$0 21 BINSovgwqswDyigUSIYAAqcOQ==\$0 3 BINSovgwqYHSICYOgUSIYAAqcOQ==\$0 3 BINSovgwYHSICYOgUSIYAAqcOg==\$0	C C C C C P	"BIRTHDATE" IS NOT NULL F_NAME=upper(F_NAME) L_NAME=upper(L_NAME) "MAKE_MODEL_YEAR" IS NOT NULL (VEHICLE_STATUS='L') or (VEHICLE_STATUS='F') or (VEHICLE_STATUS='O') "VEHICLE_STATUS" IS NOT NULL "INN 'IS NOT NULL "INSURANCE_ID" IS NOT NULL		
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3 BINSOoygwqSwmDyigUSIYAAqcOQ==50 5 BINSOoygwqSwmDyigUSIYAAqcOQ==50 6 BINSOoygwqSwmDyigUSIYAAqcOQ==50 6 BINSOoygwqSwmDyigUSIYAAqcOQ==50 8 BINSOoygwqSwmDyigUSIYAAqcOQ==50 8 BINSOoygwqSwmDyigUSIYAAqcOQ==50 9 BINSOoygwqSwmDyigUSIYAAqcOQ==50 0 BINSOoygwqSwmDyigUSIYAAqcOQ==50 2 BINSOoygwqSwmDyigUSIYAAqcOQ==50 2 BINSOoygwqSwmDyigUSIYAAqcOQ==50 2 BINSOoygwqSwSDyigUSIYAAQg==50 3 BINSOoygwYHSOYJGSWAAQg==50 6 BINSOoygwYHSOYQBSIYAAQg==50 6 BINSOoygwYHSOYQBSIYAAQg==50 6 BINSOoygwYHSOYQBSIYAAQg==50 6 BINSOoygwYHSOYQBSIYAAQg==50 7 BINSOoygwYHSOYQBSIYAAQg==50 7 BINSOoygwYHSOYQBSIYAAQg==50 8 BINSOoygwYHSOYQBSIYAAQG==50	C C C C C C C C C C C C C C C C C C C	*BIRTHDATE" IS NOT NULL F_NAME=upper(F_NAME) L_NAME=upper(F_NAME) **MAKE_MODEL_YEAR" IS NOT NULL **WEHICLE_STATUS='L') or (VEHICLE_STATUS='F') or (VEHICLE_STATUS='O') **VEHICLE_STATUS" IS NOT NULL **INSURANCE_ID" IS NOT NULL **INSURANCE_ID" IS NOT NULL **PREMIUM_AMOUNT" IS NOT NULL **INSURANCE_STATUS" IS NOT NULL	BINSovgwqSwxDyjgU5IYAAqcOQ==\$0	
3 BINSovgwqswmDyigUSIYAAqcQQ=50 4 BINSovgwqswmDyigUSIYAAqcQQ=50 5 BINSovgwqswDyigUSIYAAqcQQ=50 6 BINSovgwqswDyigUSIYAAqcQQ=50 6 BINSovgwqswnDyigUSIYAAqcQQ=50 7 BINSovgwqswnDyigUSIYAAqcQQ=50 9 BINSovgwqswnDyigUSIYAAqcQQ=50 9 BINSovgwqswnDyigUSIYAAqcQQ=50 10 BINSovgwqswnDyigUSIYAAqcQQ=50 10 BINSovgwqswnDyigUSIYAAqcQQ=50 2 BINSovgwqswsDyigUSIYAAqcQQ=50 2 BINSovgwqswsDyigUSIYAAqcQQ=50 5 BINSovgwqswsDyigUSIYAAqcQQ=50 5 BINSovgwYHSCVpUSIYAAQcS=50 5 BINSovgwYHSCVpUSIYAAQcS=50 5 BINSovgwYHSCVpUSIYAAQcS=50 6 BINSovgwYHSCVpUSIYAAQcS=50 7 BINSovgwYHSCVpUSIYAAQcS=50 8 BINSOvgwYHSCVpUSIYAAQcS=50	C C C C C C C C C C C C C C C C C C C	*BIRTHDATE" IS NOT NULL F_NAME=upper(f_NAME) L_NAME=upper(f_NAME) *MAKE_MODEL_YEAR" IS NOT NULL *WEHICLE_STATUS='L') or (VEHICLE_STATUS='F') or (VEHICLE_STATUS='O') *WEHICLE_STATUS" IS NOT NULL *VIN" IS NOT NULL *INSURANCE_ID" IS NOT NULL *PREMIUM_AMOUNT" IS NOT NULL *INSURANCE_STATUS" IS NOT NULL *INSURANCE_STATUS='O' or (INSURANCE_STATUS='P') *START_DATE" IS NOT NULL *START_DATE" IS NOT NULL	BINSovgwqSwxDyjgU5IYAAqcOQ==\$0	
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3 BINSovgwqSwmDyigUSYYAAqcQQ=50 4 BINSovgwqSwmDyigUSYYAAqcQQ=50 5 BINSovgwqSwpDyigUSYYAAqcQQ=50 6 BINSovgwqSwmDyigUSYYAAqcQQ=50 6 BINSovgwqSwmDyigUSYYAAqcQQ=50 7 BINSovgwqSwmDyigUSYYAAqcQQ=50 9 BINSovgwqSwwDyigUSYYAAqcQQ=50 0 BINSovgwqSwwDyigUSYYAAqcQQ=50 10 BINSovgwqSwwDyigUSYYAAqcQQ=50 10 BINSovgwqSwwDyigUSYYAAqcQQ=50 2 BINSovgwqSwDyigUSYYAAqcQQ=50 3 BINSovgwYHSCYDgUSYYAAQsg=50 3 BINSovgwYHSCYDgUSYYAAQsg=50 5 BINSovgwYHSCYDgUSYYAAQsg=50 6 BINSovgwYHSCYDgUSYYAAQsg=50 7 BINSovgwYHSCYDgUSYYAAQsg=50 8 BINSovgwYHSCYDgUSYYAAQsg=50 9 BINSovgwYHSCYDgUSYYAAQsg=50 9 BINSovgwYHSCYDgUSYYAAQsg=50 9 BINSovgwYHSCYDgUSYYAAQsg=50 9 BINSovgwYHSCYDgUSYYAAQsg=50 9 BINSovgwYHSCYDgUSYYAAQsg=50 1 BINSovgwYHSCYDgUSYYAAQsg=50 1 BINSovgwYHSCYDgUSYYAAQsg=50 1 BINSovgwYHSCYDgUSYYAAQsg=50 1 BINSovgwYHSCYDgUSYYAAQsg=50	C C C C C C C C C C C C C C C C C C C	*BIRTHDATE" IS NOT NULL F_NAME=upper(F_NAME) L_NAME=upper(L_NAME) **MAKE_MODEL_YEAR" IS NOT NULL **WEHICLE_STATUS='L') or (VEHICLE_STATUS='F') or (VEHICLE_STATUS='O') **VEHICLE_STATUS" IS NOT NULL **NOT NOULL **INSURANCE_ID" IS NOT NULL **INSURANCE_ID" IS NOT NULL **INSURANCE_STATUS='C NOT NULL **INSURANCE_STATUS='C NOT (INSURANCE_STATUS='P') **END_DATE" IS NOT NULL **START_DATE" IS NOT NULL **START_DATE" IS NOT SULL **START_DATE" IS NOT SULL **START_DATE" IS NOT NULL **START_DATE IS NUT NULL **START_DATE IS NUT NULL **START_DATE IS	BINSovgwqSwxDyjgU5IYAAqcOQ==\$0	
3 BINSOogwqSwmDyigUSIYAAqcQQ=50 5 BINSOogwqSwmDyigUSIYAAqcQQ=50 5 BINSOogwqSwmDyigUSIYAAqcQQ=50 6 BINSOogwqSwmDyigUSIYAAqcQQ=50 8 BINSOogwqSwmDyigUSIYAAqcQQ=50 8 BINSOogwqSwmDyigUSIYAAqcQQ=50 8 BINSOogwqSwmDyigUSIYAAqcQQ=50 9 BINSOogwqSwmDyigUSIYAAqcQQ=50 1 BINSOogwqSwmDyigUSIYAAqcQQ=50 1 BINSOogwqSwmDyigUSIYAAqcQQ=50 2 BINSOogwqSwmDyigUSIYAAqcQQ=50 2 BINSOogwqSwmDyigUSIYAAqcQQ=50 6 BINSOogwqSwmDyigUSIYAAqcQQ=50 7 BINSOogwYHSCOyBUSIYAACgg=50 8 BINSOogwYHSCOyBUSIYAACgg=50 8 BINSOogwYHSCOyBUSIYAACgg=50 8 BINSOogwYHSCOyBUSIYAACgg=50 8 BINSOogwYHSCOyBUSIYAACgg=50 8 BINSOogwYHSCOyBUSIYAACgg=50 9 BINSOogwYHSCOYBUSIYAACGg=50	C C C C C C C C C C C C C C C C C C C	**BIRTHDATE" IS NOT NULL F_NAME=upper(F_NAME) **MAKE_MODEL_YEAR" IS NOT NULL **WEHICLE_STATUS="L") or (VEHICLE_STATUS="F") or (VEHICLE_STATUS="O") **VEHICLE_STATUS="L") or (VEHICLE_STATUS="F") or (VEHICLE_STATUS="O") **VEHICLE_STATUS="L") IS NOT NULL **INSURANCE_ID" IS NOT NULL **PREMIUM_AMOUNT" IS NOT NULL **PREMIUM_AMOUNT" IS NOT NULL (INSURANCE_STATUS="C") or (INSURANCE_STATUS="P') **TAND_BANCE_STATUS="C") or INSURANCE_STATUS="P') **TAND_BANCE_STATUS="C" INSURANCE_STATUS="P') **TAND_BANCE_STATUS="	BINSovgwqSwxDyjgU5IYAAqcOQ==\$0	
3 BINSovgwqSwmDyigUSYNAqcQQ=50 5 BINSovgwqSwmDyigUSYNAqcQQ=50 5 BINSovgwqSwpDyigUSYNAqcQQ=50 6 BINSovgwqSwmDyigUSYNAqcQQ=50 6 BINSovgwqSwmDyigUSYNAqcQQ=50 7 BINSovgwqSwmDyigUSYNAqcQQ=50 9 BINSovgwqSwwDyigUSYNAqcQQ=50 0 BINSovgwqSwwDyigUSYNAqcQQ=50 1 BINSovgwqSwwDyigUSYNAqcQQ=50 2 BINSovgwqSwwDyigUSYNAqcQq=50 3 BINSovgwqSwbDyigUSYNAqcQ=50 5 BINSovgwqSwSyDyigUSYNAqcQ=50 5 BINSovgwYHSCYQBUSYNAqcs=50 5 BINSovgyHSCYQBUSYNAqcs=50 6 BINSovgyHSCYQBUSYNAqcs=50 7 BINSovgwyShSCYQBUSYNAqcs=50 8 BINSovgyHSCYQBUSYNAqcs=50 8 BINSovgyHSCYQBUSYNAqcs=50 9 BINSovgyHSCYQBUSYNAqcs=50	C C C C C C C C C C C C C C C C C C C	*BIRTHDATE" IS NOT NULL F_NAME=upper(F_NAME) L_NAME=upper(F_NAME) **MAKE_MODEL_YEAR" IS NOT NULL **WEHICLE_STATUS='L') or (VEHICLE_STATUS='F') or (VEHICLE_STATUS='O') **VEHICLE_STATUS='IS NOT NULL **INSURANCE_ID" IS NOT NULL **INSURANCE_ID" IS NOT NULL **INSURANCE_STATUS='IS NOT NULL **INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **END_DATE" IS NOT NULL (INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **INSURANCE_STATUS='IS NOT NULL **START_DATE" IS NOT NULL	BINSovgwqSwxDyjgU5IYAAqcOQ==\$0	
3 BINSovgwqswmDyigUSIYAAqcQQ=50 4 BINSovgwqswmDyigUSIYAAqcQQ=50 5 BINSovgwqswDyigUSIYAAqcQQ=50 6 BINSovgwqswDyigUSIYAAqcQQ=50 6 BINSovgwqswmDyigUSIYAAqcQQ=50 7 BINSovgwqswmDyigUSIYAAqcQQ=50 9 BINSovgwqswwDyigUSIYAAqcQQ=50 9 BINSovgwqswwDyigUSIYAAqcQQ=50 10 BINSovgwqswwDyigUSIYAAqcQQ=50 10 BINSovgwqswwDyigUSIYAAqcQQ=50 10 BINSovgwqswwDyigUSIYAAqcQQ=50 10 BINSovgwqswbDyigUSIYAAqcQQ=50 10 BINSovgwqswsDyigUSIYAAqcQQ=50 10 BINSovgwqswsDyigUSIYAAqcg=50 10 BINSovgwqswsDyigUSIYAAqcg=50 10 BINSovgwyHSCypUSIYAAQcg=50 10 BINSovgwHSCypUSIYAAQcg=50	C C C C C C C C C C C C C C C C C C C	**BIRTHDATE" IS NOT NULL F_NAME=upper(F_NAME) **MAKE_MODEL_YEAR" IS NOT NULL **WEHICLE_STATUS="L") or (VEHICLE_STATUS="F") or (VEHICLE_STATUS="O") **VEHICLE_STATUS="L") or (VEHICLE_STATUS="F") or (VEHICLE_STATUS="O") **VEHICLE_STATUS="L") IS NOT NULL **INSURANCE_ID" IS NOT NULL **PREMIUM_AMOUNT" IS NOT NULL **PREMIUM_AMOUNT" IS NOT NULL (INSURANCE_STATUS="C") or (INSURANCE_STATUS="P') **TAND_BANCE_STATUS="C") or INSURANCE_STATUS="P') **TAND_BANCE_STATUS="C" INSURANCE_STATUS="P') **TAND_BANCE_STATUS="	BINSovgwqSwxDyjgUSIYAAqcOQ==\$0 BINSovgyVHS8CyOgUSIYAAr0xg==\$0	
3 BINSOowgwTswnDyigUSIYAAqcQQ=50 5 BINSOowgwTswnDyigUSIYAAqcQQ=50 5 BINSOowgwTswnDyigUSIYAAqcQQ=50 6 BINSOowgwTswnDyigUSIYAAqcQQ=50 6 BINSOowgwTswnDyigUSIYAAqcQQ=50 9 BINSOowgwTswnDyigUSIYAAqcQQ=50 9 BINSOowgwTswnDyigUSIYAAqcQQ=50 10 BINSOowgwTswnDyigUSIYAAqcQQ=50 10 BINSOowgwTswnDyigUSIYAAqcQQ=50 2 BINSOowgwTsUDyigUSIYAAqcQ=50 2 BINSOowgwTsUDyigUSIYAAqcQ=50 5 BINSOowgwTsUDyigUSIYAAQsg=50 6 BINSOowgwTsUDyigUSIYAAQsg=50 6 BINSOowgwTsUDyigUSIYAAQsg=50 6 BINSOowgwTsUDyigUSIYAAQsg=50 6 BINSOowgwTsUDyigUSIYAAQsg=50 8 BINSOowgwTsUDyigUSIYAAQsg=50 8 BINSOowgwTsUDyigUSIYAAQsg=50 9 BINSOowgwTsUDyigUSIYAAQsg=50	C C C C C C C C C C C C C C C C C C C	**BIRTHDATE" IS NOT NULL F_NAME=upper(F_NAME) L_NAME=upper(F_NAME) **MAKE_MODEL_YEAR" IS NOT NULL **WEHICLE_STATUS='L') or (VEHICLE_STATUS='F') or (VEHICLE_STATUS='O') **VEHICLE_STATUS' IS NOT NULL **INSURANCE_ID" IS NOT NULL **INSURANCE_ID" IS NOT NULL **PREMIUM_AMOUNT" IS NOT NULL **INSURANCE_STATUS-'S NOT NULL **INSURANCE_STATUS-'C') or (INSURANCE_STATUS='P') **END_DATE" IS NOT NULL (INSURANCE_STATUS-'C') or (INSURANCE_STATUS='P') **SND_DATE" IS NOT NULL **INSURANCE_STATUS-IS NOT NULL **END_DATE" IS NOT NULL **END_DATE" IS NOT NULL **SND_DATE" IS NOT NULL **SND_DATE" IS NOT NULL **SND_DATE" IS NOT NULL **STAT_DATE" IS NOT NULL **NSURANCE_ID" IS NOT NULL **NSURANCE_ID" IS NOT NULL **NSURANCE_ID" IS NOT NULL **REMIUM_AMOUNT" IS NOT NULL **REMIUM_AMOUNT" IS NOT NULL	BINSovgwqSwxDyjgU5IYAAqcOQ==\$0	
3 BINSovgwqSwmDyigUSIYAAqcQQ=50 4 BINSovgwqSwmDyigUSIYAAqcQQ=50 5 BINSovgwqSwpDyigUSIYAAqcQQ=50 6 BINSovgwqSwmDyigUSIYAAqcQQ=50 6 BINSovgwqSwmDyigUSIYAAqcQQ=50 7 BINSovgwqSwmDyigUSIYAAqcQQ=50 9 BINSovgwqSwmDyigUSIYAAqcQQ=50 10 BINSovgwqSwSDyigUSIYAAqcSq=50 10 BINSovgwqSwSDyigUSIYAAqcSq=50 10 BINSovgwYHSICYQBUSIYAAqcSq=50 10 BINSovgwYHGOXQBUSIYAAqcSq=50	C C C C C C C C C C C C C C C C C C C	*BIRTHDATE" IS NOT NULL F_NAME=upper(F_NAME) L_NAME=upper(F_NAME) **MAKE_MODEL_YEAR" IS NOT NULL **WEHICLE_STATUS='L') or (VEHICLE_STATUS='F') or (VEHICLE_STATUS='O') **VEHICLE_STATUS='IS NOT NULL **INSURANCE_ID" IS NOT NULL **INSURANCE_ID" IS NOT NULL **INSURANCE_STATUS='IS NOT NULL **INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **END_DATE" IS NOT NULL (INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **INSURANCE_STATUS='IS NOT NULL **START_DATE" IS NOT NULL	BINSovgwqSwxDyjgUSIYAAqcOQ==\$0 BINSovgyVHS8CyDgUSIYAAr0xg==\$0 BINSovgyVH6FCyDgUSIYAAr0xg==\$0	
3 BINSOoygwqSwmDyigUSIYAAqcQQ=S0 5 BINSOoygwqSwmDyigUSIYAAqcQQ=S0 5 BINSOoygwqSwmDyigUSIYAAqcQQ=S0 6 BINSOoygwqSwmDyigUSIYAAqcQQ=S0 8 BINSOoygwqSwmDyigUSIYAAqcQQ=S0 8 BINSOoygwqSwmDyigUSIYAAqcQQ=S0 9 BINSOoygwqSwmDyigUSIYAAqcQQ=S0 0 BINSOoygwqSwmDyigUSIYAAqcQQ=S0 0 BINSOoygwqSwmDyigUSIYAAqcQQ=S0 2 BINSOoygwqSwmDyigUSIYAAqcQq=S0 2 BINSOoygwqSwDyigUSIYAAqcgq=S0 1 BINSOoygwqSwDyigUSIYAAqg=S0 2 BINSOoygwYHSCYQBUSIYAAqg=S0 6 BINSOoygWHSCYQBUSIYAAqg=S0 6 BINSOoygWHSCYQBUSIYAAqg=S0 7 BINSOoygWHSCYQBUSIYAAqg=S0 9 BINSOoygWHSCYQBUSIYAAqg=S0 9 BINSOoygWHSCYQBUSIYAAqg=S0 1 BINSOoygWHSCYQBUSIYAAqg=S0	C C C C C C C C C C C C C C C C C C C	**BIRTHDATE" IS NOT NULL F_NAME=upper(F_NAME) L_NAME=upper(F_NAME) **MAKE_MODEL_YEAR" IS NOT NULL **WEHICLE_STATUS='L') or (VEHICLE_STATUS='F') or (VEHICLE_STATUS='O') **VEHICLE_STATUS' IS NOT NULL **INSURANCE_ID" IS NOT NULL **INSURANCE_ID" IS NOT NULL **INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **RIN_DATE" IS NOT NULL (INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **RIN_DATE" IS NOT NULL (INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **INSURANCE_STATUS='C') or INSURANCE_STATUS='P') **INSURANCE_STATUS='C') or INSURANCE_STATUS='P') **INSURANCE_STATUS='C') or INSURANCE_STATUS='P') **INSURANCE_STATUS='C') OR NULL **INSURANCE_ID IS NOT NULL **INSURANC	BINSovgwqSwxDyjgUSIYAAqcOQ==\$0 BINSovgyVHS8CyOgUSIYAAr0xg==\$0	
3 BINSovgwqSwmDyigUSIYAAqcQQ=50 4 BINSovgwqSwmDyigUSIYAAqcQQ=50 5 BINSovgwqSwmDyigUSIYAAqcQQ=50 6 BINSovgwqSwmDyigUSIYAAqcQQ=50 6 BINSovgwqSwmDyigUSIYAAqcQQ=50 6 BINSovgwqSwmDyigUSIYAAqcQQ=50 9 BINSovgwqSwwDyigUSIYAAqcQQ=50 10 BINSovgwqSwwDyigUSIYAAqcQQ=50 10 BINSovgwqSwwDyigUSIYAAqcQQ=50 10 BINSovgwqSwwDyigUSIYAAqcQQ=50 2 BINSovgwqSwmDyigUSIYAAqcQq=50 2 BINSovgwqSwDyigUSIYAAqsq=50 3 BINSovgwYHSCQpUSIYAAqsg=50 5 BINSovgwYHSCQpUSIYAAqsg=50 6 BINSovgwYHSCQpUSIYAAqsg=50 6 BINSovgwYHSCQpUSIYAAqsg=50 9 BINSovgwYHSCQpUSIYAAqsg=50 10 BINSovgwYHSCQpUSIYAAqsg=50	C C C C C C C C C C C C C C C C C C C	**BIRTHDATE" IS NOT NULL F_NAME=upper(F_NAME) L_NAME=upper(F_NAME) **MAKE_MODEL_YEAR" IS NOT NULL **WEHICLE_STATUS='L') or (VEHICLE_STATUS='F') or (VEHICLE_STATUS='O') **VEHICLE_STATUS' IS NOT NULL **INSURANCE_ID" IS NOT NULL **INSURANCE_ID" IS NOT NULL **PREMIUM_AMOUNT" IS NOT NULL **INSURANCE_STATUS-'S NOT NULL **INSURANCE_STATUS-'C') or (INSURANCE_STATUS='P') **END_DATE" IS NOT NULL (INSURANCE_STATUS-'C') or (INSURANCE_STATUS='P') **SND_DATE" IS NOT NULL **INSURANCE_STATUS-IS NOT NULL **END_DATE" IS NOT NULL **END_DATE" IS NOT NULL **SND_DATE" IS NOT NULL **SND_DATE" IS NOT NULL **SND_DATE" IS NOT NULL **STAT_DATE" IS NOT NULL **NSURANCE_ID" IS NOT NULL **NSURANCE_ID" IS NOT NULL **NSURANCE_ID" IS NOT NULL **REMIUM_AMOUNT" IS NOT NULL **REMIUM_AMOUNT" IS NOT NULL	BINSovgwqSwxDyjgUSIYAAqcOQ==\$0 BINSovgyVHS8CyDgUSIYAAr0xg==\$0 BINSovgyVH6FCyDgUSIYAAr0xg==\$0	
SINSOvgwYSWOWNDYgUSTYAACQC=50 BINSOvgwqswoDygUSTYAAqcQC=50 BINSOvgwYHSCOYBUSTYAAqcQC=50 BINSOvgwYHSCOYBUSTYAAQcS=50 BINSOVGWYHSCOYBUSTYAAQCS=50	C C C C C C C C C C C C C C C C C C C	*BIRTHDATE" IS NOT NULL F_NAME=upper(F_NAME) L_NAME=upper(L_NAME) **MAKE_MODEL_YEAR" IS NOT NULL **WEHICLE_STATUS='L') or (VEHICLE_STATUS='F') or (VEHICLE_STATUS='O') **VEHICLE_STATUS='IS NOT NULL **INSURANCE_ID" IS NOT NULL **INSURANCE_ID" IS NOT NULL **INSURANCE_STATUS='IS NOT NULL **INSURANCE_STATUS='O' or (INSURANCE_STATUS='P') **END_DATE" IS NOT NULL **START_DATE" IS NOT NULL **S	BINSovgwqSwxDyjgUSIYAAqcOQ==\$0 BINSovgyVHS8CyDgUSIYAAr0xg==\$0 BINSovgyVH6FCyDgUSIYAAr0xg==\$0	
33 BINSOowgwTswnDylgUSTYAAqcOQ==50 45 BINSOowgwTswnDylgUSTYAAqcOQ==50 55 BINSOowgwTswDylgUSTYAAqcOQ==50 66 BINSOowgwTswnDylgUSTYAAqcOQ==50 68 BINSOowgwTswnDylgUSTYAAqcOQ==50 88 BINSOowgwTswDylgUSTYAAqcOQ==50 89 BINSOowgwTswDylgUSTYAAQcOQ==50 90 BINSOowgwTswDylgUSTYAAQcOQ==50 91 BINSOowgwTswDylgUSTYAAQcOQ==50 92 BINSOowgWTSWDylgUSTYAAQcoQ==50 93 BINSOowgWTSWDylgUSTYAAQcoQ==50 94 BINSOowgWTSCOYBUSTYAAQcoQ==50 95 BINSOowgWTSCOYBUSTYAAQcog==50 96 BINSOowgWTSCOYBUSTYAAQcog==50 97 BINSOowgWTSCOYBUSTYAAQcog==50 98 BINSOowgWTSCOYBUSTYAAQcog==50 99 BINSOowgWTSCOYBUSTYAAQcog==50 91 BINSOowgWTSCOYBUSTYAAQcog==50 92 BINSOowgWTHEACOYBUSTYAAQcog==50 93 BINSOowgWTHEACOYBUSTYAAQcog==50 94 BINSOowgWTHEACOYBUSTYAAQcog==50 95 BINSOowgWTHEACOYBUSTYAAQcog==50 96 BINSOowgWTHEACOYBUSTYAAQcog==50 96	C C C C C C C C C C C C C C C C C C C	**BIRTHDATE* IS NOT NULL F_NAME=upper(F_NAME) L_NAME=upper(F_NAME) **MAKE_MODEL_YEAR* IS NOT NULL **MAKE_MODEL_YEAR* IS NOT NULL **WEHICLE_STATUS='L') or (VEHICLE_STATUS='F') or (VEHICLE_STATUS='O') **VEHICLE_STATUS* IS NOT NULL **INSURANCE_ID* IS NOT NULL **INSURANCE_ID* IS NOT NULL **PREMIUM_AMOUNT* IS NOT NULL **INSURANCE_STATUS='C') or (IRSURANCE_STATUS='P') **RND_DATE* IS NOT NULL (INSURANCE_STATUS='C') or (IRSURANCE_STATUS='P') **RND_DATE* IS NOT NULL **INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **INSURANCE_STATUS='C') or (INSURANCE_STATUS='P') **INSURANCE_STATUS='C') or NULL **INSURANCE_ID* IS NOT NULL **INSURANCE_ID* ID* ID* ID* ID* ID* ID* ID* ID* ID*	BINSovgwqSwxDyjgUSIYAAqcOQ==\$0 BINSovgyVHS8CyDgUSIYAAr0xg==\$0 BINSovgyVH6FCyDgUSIYAAr0xg==\$0	

7 BIN\$ovgyVH6LCyDgU5IYAAr0sg==\$0 C 8 BIN\$ovgyVH6KCyDgU5IYAAr0sg==\$0 C		"CITY" IS NOT NULL				
B BIN\$ovgyVH6KCyDgU5IYAAr0sg==\$0 C		"CUSTOMER_TYPE" IS NOT NULL				
		"MARITAL_STATUS" IS NOT NULL				
BIN\$ovgyVH6JCyDgU5IYAAr0sg==\$0 C		"LAST_NAME" IS NOT NULL				
0 BIN\$ovgyVH6ICyDgU5IYAAr0sg==\$0 C		"FIRST_NAME" IS NOT NULL				
1 BIN\$ovgyVH6HCyDgU5IYAAr0sg==\$0 C		"CUSTOMER_ID" IS NOT NULL				
2 BIN\$ovgyVH6YCyDgU5IYAAr0sg==\$0 C		STREET=upper(STREET)				
BIN\$ovgyVH6WCyDgU5IYAAr0sg==\$0 C 4 SYS C0015776 C		CITY=upper(CITY)				
		"CUSTOMER_ID" IS NOT NULL				
5 CUSTOMER_PK P			CUSTOMER_PK			
6 SYS_C0015778 C		"LAST_NAME" IS NOT NULL				
7 SYS_C0015779 C		"MARITAL_STATUS" IS NOT NULL				
8 SYS_C0015780 C		"CUSTOMER_TYPE" IS NOT NULL				
9 SYS_C0015781 C		"CITY" IS NOT NULL				
0 SYS_C0015782 C		"STATE" IS NOT NULL				
1 SYS_C0015783 C		"STREET" IS NOT NULL				
2 SYS_C0015784 C		"ZIP" IS NOT NULL				
3 C_CUSTOMER_GENDER C		(GENDER is NULL) or (GENDER='M') or (GENDER='F')				
4 C_CUSTOMER_MARITAL_STATUS C		(MARITAL_STATUS='M') or (MARITAL_STATUS='S') or (MARITAL_STATUS='W')				
5 C_CUSTOMER_CUSTOMER_TYPE C		(CUSTOMER_TYPE='A') or (CUSTOMER_TYPE='H') or (CUSTOMER_TYPE='B')				
6 C_CUSTOMER_FIRST_NAME C		FIRST_NAME=upper(FIRST_NAME)				
7 C_CUSTOMER_LAST_NAME C		LAST_NAME=upper(LAST_NAME)				
8 C_CUSTOMER_CITY C		CITY=upper(CITY)				
		STATE=upper(STATE)				
0 C_CUSTOMER_STREET C		STREET=upper(STREET)				
1 SYS_C0015777 C		"FIRST_NAME" IS NOT NULL				
2 SYS_C0015786 C		"LICENSE_NUM" IS NOT NULL				
3 SYS_C0015787 C		"F_NAME" IS NOT NULL				
4 SYS_C0015788 C		"L_NAME" IS NOT NULL				
5 DRIVER_PK P			DRIVER_PK			
6 C_DRIVER_F_NAME C		F_NAME=upper(F_NAME)	_			
7 C_DRIVER_L_NAME C		L_NAME=upper(L_NAME)				
8 SYS_C0015789 C		"BIRTHDATE" IS NOT NULL				
9 H_INSUR_CUST_FK R				ADMIN	CUSTOMER_PK	NO ACTION
0 SYS_C0015794 C		"PREMIUM_AMOUNT" IS NOT NULL				
1 HOME_INSURANCE_PK P			HOME_INSURANCE_PK			
2 C HOME INSURANCE STATUS C		(INICI DANCE CTATUE-ICI) or (INICI DANCE CTATUE IAD				
		(INSURANCE_STATUS='C') or (INSURANCE_STATUS='P')				
3 SYS_C0015795 C		"INSURANCE_STATUS" IS NOT NULL				
4 SYS_C0015793 C		"END_DATE" IS NOT NULL				
5 SYS_C0015791 C		"INSURANCE_ID" IS NOT NULL				
4 SYS_C0015793	C	"END_DATE" IS NOT NULL				
5 SYS_C0015791	C	"INSURANCE_ID" IS NOT NULL				
6 SYS_C0015792	C	"START_DATE" IS NOT NULL				
7 SYS_C0015798	С	"INSURANCE_ID" IS NOT NULL				
8 SYS_C0015797	c	"HOME_ID" IS NOT NULL				
9 HOME_RECORD_PK		NOME_ID ISNOT NOTE	HOME_RECORD_PK			
	P		HOWE_RECORD_PK		121011050 110445 011	
0 H_RCD_INSURED_H_FK	R			ADMIN	INSURED_HOME_PK	NO ACTION
H_RCD_H_INSUR_FK	R			ADMIN	HOME_INSURANCE_PK	NO ACTION
12 INSURED_HOME_PK	P		INSURED_HOME_PK			
13 SYS_C0015803	C	"HOME_AREA" IS NOT NULL				
		(SWIMMING_POOL='U') or (SWIMMING_POOL='O') or (SWIMMING_POOL='I') or				
14 C_INSURED_HOME_SWIMMING_POOL	c	(SWIMMING_POOL='M') or (SWIMMING_POOL is NULL)				
5 C_INSURED_HOME_BASEMENT	C	(BASEMENT=1) or (BASEMENT=0)				
C_INSORED_HOME_BASEMENT	C	(DASEMENT=1) OF (DASEMENT=0)				
6 C_INSURED_HOME_HOME_SECURITY_SYSTEM	C	(HOME_SECURITY_SYSTEM=1) or (HOME_SECURITY_SYSTEM=0)				
	c					
7 C_INSURED_HOME_AUTO_FIRE_NOTIFICATION		(AUTO_FIRE_NOTIFICATION=1) or (AUTO_FIRE_NOTIFICATION=0)				
8 SYS_C0015802	C	"HOME_PURCHASE_VALUE" IS NOT NULL				
9 SYS_C0015801	С	"HOME_PURCHASE_DATE" IS NOT NULL				
0 SYS_C0015800	C	"HOME_ID" IS NOT NULL				
1 SYS_C0015804	C	"HOME_TYPE" IS NOT NULL				
2 SYS_C0015805	C	"AUTO_FIRE_NOTIFICATION" IS NOT NULL				
3 SYS_C0015806	С	"HOME_SECURITY_SYSTEM" IS NOT NULL				
4 SYS_C0015807	С	"BASEMENT" IS NOT NULL				
5 C_INSURED_HOME_HOME_TYPE	С	(HOME_TYPE='S') or (HOME_TYPE='M') or (HOME_TYPE='C') or (HOME_TYPE='T')				
66 INSURED_VEHICLE_PK	P		INSURED_VEHICLE_PK			
7 SYS_C0015811	C	"VEHICLE_STATUS" IS NOT NULL				
8 SYS_C0015810	C	"MAKE_MODEL_YEAR" IS NOT NULL				
9 SYS_C0015809	c	"VIN" IS NOT NULL				
	C					
0 C_INSURED_VEHICLE_VEHICLE_STATUS		(VEHICLE_STATUS='L') or (VEHICLE_STATUS='F') or (VEHICLE_STATUS='O')				
1 SYS_C0015817	C	"INVOICE_AMOUNT" IS NOT NULL				
2 SYS_C0015816	С	"PAYMENT_DUE_DATE" IS NOT NULL				
3 SYS_C0015815	C	"INVOICE_DATE" IS NOT NULL				
4 SYS_C0015814	С	"INSURANCE_ID" IS NOT NULL				
5 SYS_C0015813	С	"INVOICE_ID" IS NOT NULL				
6 INV_A_A_INSUR_FK	R			ADMIN	AUTO_INSURANCE_PK	NO ACTION
7 INVOICE_AUTO_PK	P		INVOICE_AUTO_PK			
	c	"INVOICE DATE" IS NOT NULL				
	C	"INVOICE_DATE" IS NOT NULL				
8 SYS_C0015821	C	"PAYMENT_DUE_DATE" IS NOT NULL				
8 SYS_C0015821 9 SYS_C0015822		"INVOICE_AMOUNT" IS NOT NULL				
8 SYS_C0015821 9 SYS_C0015822 0 SYS_C0015823	C					
8 SYS_C0015821 9 SYS_C0015822		"INVOICE_ID" IS NOT NULL				
8 SYS_C0015821 9 SYS_C0015822 0 SYS_C0015823	C					
8 SYS_C0015821 9 SYS_C0015822 0 SYS_C0015823	C					
8 SYS_C0015821 9 SYS_C0015822 0 SYS_C0015823	C					
8 SYS_C0015821 9 SYS_C0015822 5 SYS_C0015823 1 SYS_C0015819	C			ADMIN	HOME_INSURANCE_PK	NO ACTION
S YS_C0015821 5 YS_C0015822 5 YS_C0015823 5 YS_C0015819 2 INV_H_H_INSUR_FK	C C		INVOICE HOME PK	ADMIN	HOME_INSURANCE_PK	NO ACTION
S NS_C0015821 9 NS_C0015822 9 NS_C0015823 1 NS_C0015819 2 INV_H_H_INSUR_FK 3 INVOICE_HOME_PK	C C	*INVOICE_ID* IS NOT NULL	INVOICE_HOME_PK	ADMIN	HOME_INSURANCE_PK	NO ACTION
SYS_C0015821 SYS_C0015822 SYS_C0015823 SYS_C0015819 2 INV_H_H_INSUR_FK INV_B_ME_ME_ME_ME SYS_C0015820	C C		INVOICE_HOME_PK			
S NS_C0015821 S NS_C0015822 S NS_C0015823 S NS_C0015819 Z INV_H_H_INSUR_FK S INVOICE_HOME_PK S NS_C0015820 S NY_A_NK_A_FK	C C R	"INVOICE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL	INVOICE_HOME_PK	ADMIN ADMIN	HOME_INSURANCE_PK	
SYS_CO015821 SYS_C0015822 SYS_C0015823 SYS_C0015819 INV_H_H_INSUR_FK B INVOICE_HOME_PK SYS_C0015820 PAY_A_INV_A_FK C_PAYMENT_AUTO_PAYMENT_METHOD	C C	*INVOICE_ID* IS NOT NULL				
S NS_C0015821) SYS_C0015822) SYS_C0015823] SYS_C0015819 Z INV_H_H_INSUR_FK S INVOICE_HOME_PK 4 SYS_C0015820 5 PAY_A_INV_A_FK 6_C_PAYMENT_AUTO_PK 7 PAYMENT_AUTO_PK	C C R	"INSURANCE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL (PAYMENT_METHOD='PayPayl') or (PAYMENT_METHOD='Credit') or (PAYMENT_METHOD='Debit') or	INVOICE_HOME_PK PAYMENT_AUTO_PK			
S NS_C0015821) SYS_C0015822) SYS_C0015823] SYS_C0015819 Z INV_H_H_INSUR_FK S INVOICE_HOME_PK 4 SYS_C0015820 5 PAY_A_INV_A_FK 6_C_PAYMENT_AUTO_PK 7 PAYMENT_AUTO_PK	C C R	"INVOICE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL				
8 SYS_CO015821 9 SYS_C0015822 0 SYS_C0015823 1 SYS_C0015819 2 INV_H_H_INSUR_FK 3 INVOICE_HOME_PK 4 SYS_C0015820 5 PAY_A_INV_A_FK 6 C_PAYMENT_AUTO_PAYMENT_METHOD 7 PAYMENT_AUTO_PAYMENT_METHOD 8 SYS_C0015827	R P C R C	"INVOICE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL (PAYMENT_METHOD='PayPail') or (PAYMENT_METHOD='Credit') or (PAYMENT_METHOD='Debit') or "PAYMENT_METHOD" IS NOT NULL				
8 SYS_CO015821 9 SYS_C0015822 0 SYS_C0015829 1 SYS_C0015819 2 INV_H_H_INSUR_FK 3 INVOICE_HOME_PK 4 SYS_C0015820 5 RYA_RIW_A_FK 6 C_PAYMENT_AUTO_PK 8 SYS_C0015820 9 SYS_C0015820	R P C R C C C C	"INSURANCE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL (PAYMENT_METHOD='PayPay') or (PAYMENT_METHOD='Credit') or (PAYMENT_METHOD='Debit') or "PAYMENT_METHOD" IS NOT NULL "PAYMENT_DATE" IS NOT NULL				
8 9YS_CO015821 9 9YS_C0015822 0 5YS_C0015823 1 5YS_C0015829 2 INV_H_H_INSUR_FK 3 INVOICE_HOME_PK 4 5YS_C0015820 5 PAY_A_INY_A_FK 6 C_PAYMENT_AUTO_PAYMENT_METHOD 7 PAYMENT_AUTO_PAYMENT_METHOD 8 9YS_C0015825 9 9YS_C0015825	R P C R C C C C C C	"INVOICE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL (PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" IS NOT NULL "PAYMENT_DATE" IS NOT NULL "PAYMENT_DOTS IN SOT NULL "PAYMENT_DOTS IN SOT NULL				
8. SYS_CO015821 9. SYS_CO015822 0. SYS_CO015823 1. SYS_CO015829 72. INV_H_M_INSUR_FK 31. INVOICE_HOME_PK 4. SYS_CO015820 5. PAY_A_INV_A_FK 6. C_PAYMENT_AUTO_PK 9. SYS_CO015820 0. SYS_CO015826 0. SYS_CO015826 0. SYS_CO015826 1. SYS_CO015826	R P C R C C C C C C C C	"INSURANCE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL (PAYMENT_METHOD='PayPay') or (PAYMENT_METHOD='Credit') or (PAYMENT_METHOD='Debit') or "PAYMENT_METHOD" IS NOT NULL "PAYMENT_DATE" IS NOT NULL	PAYMENT_AUTO_PK			
8 9YS_CO015821 9 9YS_C0015822 0 5YS_C0015823 1 9YS_C0015829 2 19YS_C0015819 2 19YS_C0015819 2 19YS_C0015820 5 PAY_A_INY_A_FK 6 C_PAYMENT_AUTO_PAYMENT_METHOD 7 PAYMENT_AUTO_PAYMENT_METHOD 7 PAYMENT_AUTO_PAYMENT_METHOD 9 9YS_C0015827 1 9YS_C0015827 1 9YS_C0015825 1 9YS_C0015825 2 PAYMENT_HOME_PK	R P C C C C C P	"INVOICE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL (PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" IS NOT NULL "PAYMENT_ID" IS NOT NULL "PAYMENT_ID" IS NOT NULL "PAYMENT_ID" IS NOT NULL				
8 9YS_CO015821 9 9YS_C0015822 0 5YS_C0015823 1 9YS_C0015829 2 19YS_C0015819 2 19YS_C0015819 2 19YS_C0015820 5 PAY_A_INY_A_FK 6 C_PAYMENT_AUTO_PAYMENT_METHOD 7 PAYMENT_AUTO_PAYMENT_METHOD 7 PAYMENT_AUTO_PAYMENT_METHOD 9 9YS_C0015827 1 9YS_C0015827 1 9YS_C0015825 1 9YS_C0015825 2 PAYMENT_HOME_PK	R P C R C C C C C C C C	"INVOICE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL (PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" IS NOT NULL "PAYMENT_ID' IS NOT NULL "PAYMENT_ID' IS NOT NULL (PAYMENT_ID' IS NOT NULL (PAYMENT_ID' IS NOT NULL (PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or	PAYMENT_AUTO_PK			
8 SYS_COOIS821 9 SYS_COOIS823 1 SYS_COOIS823 1 SYS_COOIS829 2 INV_H_H_INSUR_FK 3 INVOICE_HOME_PK 4 SYS_COOIS820 5 PAY_A_INV_A_FK 6 _PAYMENT_AUTO_PAYMENT_METHOD 7 PAYMENT_AUTO_PAYMENT_METHOD 8 SYS_COOIS829 9 SYS_COOIS825 1 SYS_COOIS825 1 SYS_COOIS825 2 PAYMENT_HOME_PAYMENT_METHOD	R P C C C C C P	"INVOICE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL (PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" IS NOT NULL "PAYMENT_ID" IS NOT NULL "PAYMENT_ID" IS NOT NULL "PAYMENT_ID" IS NOT NULL	PAYMENT_AUTO_PK			
8 YS, CO015821 9 YS, CO015822 0 YS, CO015823 1 YS, CO015829 2 INV_H_H_INSUR_FK 3 INVOICE_HOME_PK 4 YS, CO015820 5 PAY_A_INV_A_FK 6 C_PAYMENT_AUTO_PAYMENT_METHOD 7 PAYMENT_AUTO_PK 8 YS, CO015820 0 SYS, CO015829 1 YS, CO015829 1 YS, CO015829 2 PAYMENT_HOME_PAYMENT_METHOD 2 PAYMENT_HOME_PAYMENT_METHOD 3 C_PAYMENT_HOME_PAYMENT_METHOD 4 YS, CO015829 3 C_PAYMENT_HOME_PAYMENT_METHOD 4 YS, CO015829	R P C C C C C C C C C C C C C C C C C C	"INVOICE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL (PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" IS NOT NULL "PAYMENT_ID" IS NOT NULL "PAYMENT_ID" IS NOT NULL (PAYMENT_METHOD="NOT NULL "PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" SNOT NULL	PAYMENT_AUTO_PK			
8 SYS_CO015821 9 SYS_CO015822 0 SYS_CO015823 1 SYS_CO015823 1 SYS_CO015819 2 INV_H_H_INSUR_FK 3 INVOICE_HOME_PK 4 SYS_CO015820 5 PAY_A_INV_A_FK 6 _PAYMENT_AUTO_PAYMENT_METHOD 7 PAYMENT_AUTO_PAYMENT_METHOD 8 SYS_CO015825 1 SYS_CO015825 1 SYS_CO015825 2 PAYMENT_HOME_PK 3 _PAYMENT_HOME_PK 3 _PAYMENT_HOME_PK 4 SYS_CO015831	R P C R C C C C C C C C C C C C C C C C	"INVOICE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL (PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" IS NOT NULL "PAYMENT_ID' IS NOT NULL "PAYMENT_ID' IS NOT NULL (PAYMENT_ID' IS NOT NULL (PAYMENT_ID' IS NOT NULL (PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or	PAYMENT_AUTO_PK	ADMIN	INVOICE_AUTO_PK	NO ACTION
8. SYS_COOIS821 9. SYS_COOIS822 0. SYS_COOIS823 1. SYS_COOIS823 1. SYS_COOIS829 2. INV_IH_INSUR_FK 3. INVOICE_HOME_PK 4. SYS_COOIS820 5. PAY_A_INV_A_FK 6. C_PAYMENT_AUTO_PX 6. SYS_COOIS820 0. SYS_COOIS820	C C C C C C C C C R R	"INVOICE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL (PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" IS NOT NULL "PAYMENT_ID" IS NOT NULL "PAYMENT_ID" IS NOT NULL (PAYMENT_METHOD="NOT NULL "PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" SNOT NULL	PAYMENT_AUTO_PK	ADMIN	INVOICE_AUTO_PK	NO ACTION
8 SYS_COOIS821 9 SYS_COOIS823 1 SYS_COOIS823 1 SYS_COOIS823 2 INV_H_MINSUR_FK 3 INVOICE_HOME_PK 4 SYS_COOIS820 5 PAY_A_INV_A_FK 6 C_PAYMENT_AUTO_PAYMENT_METHOD 7 PAYMENT_AUTO_PAYMENT_METHOD 9 SYS_COOIS820 1 SYS_COOIS825 1 SYS_COOIS826 1 SYS_COOIS826 1 SYS_COOIS826 1 SYS_COOIS826 1 SYS_COOIS827 1 SYS_COOIS	C R P C R C P C C C C C C C R R R R	"INVOICE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL (PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" IS NOT NULL "PAYMENT_ID" IS NOT NULL "PAYMENT_ID" IS NOT NULL (PAYMENT_METHOD="NOT NULL "PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" SNOT NULL	PAYMENT_AUTO_PK	ADMIN ADMIN ADMIN ADMIN	INVOICE_AUTO_PK INVOICE_HOME_PK DRIVER_PK	NO ACTION NO ACTION NO ACTION
8 PS_COOTS821 9 PS_COOTS822 0 PS_COOTS823 1 SYS_COOTS823 2 INV_H_H_INSUR_FK 3 INVOICE_HOME_PK 4 PS_COOTS820 5 PAY_A_INV_A_FK 6 C_PAYMENT_AUTO_PXMENT_METHOD 7 PAYMENT_AUTO_PX 8 PS_COOTS820 0 PSS_COOTS827 0 PSS_COOTS827 1 PSS_COOTS827 2 PAYMENT_HOME_PX 9 PSS_COOTS827 2 PAYMENT_HOME_PX 9 PS_COOTS827 5 PAYMENT_HOME_PXMENT_METHOD 4 PSS_COOTS827 5 PAYMENT_HOME_PXMENT_METHOD 5 PSS_COOTS827 6 PAYMENT_HOME_PXMENT_METHOD 6 PAY_H_INV_H_FK 7 VICE_DINV_DRV_FK 8 VICE_DRV_VICE_FK	C C C C C C C C C R R R R R R R R	"INVOICE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL (PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" IS NOT NULL "PAYMENT_ID" IS NOT NULL "PAYMENT_ID" IS NOT NULL (PAYMENT_METHOD="NOT NULL "PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" SNOT NULL	PAYMENT_AUTO_PK PAYMENT_HOME_PK	ADMIN	INVOICE_AUTO_PK	NO ACTION
S NS_COUSS22 D SYS_COUSS22 D SYS_COUSS22 D SYS_COUSS23 I SYS_COUSS23 I SYS_COUSS20 I SYS_COUSS20 D SYS_COUSS20 D SYS_COUSS20 D SYS_COUSS20 D SYS_COUSS20 D SYS_COUSS20 D SYS_COUSS25 D SYS_C	C R P C R C P C C C C C C C R R R R	"INVOICE_ID" IS NOT NULL "INSURANCE_ID" IS NOT NULL (PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" IS NOT NULL "PAYMENT_ID" IS NOT NULL "PAYMENT_ID" IS NOT NULL (PAYMENT_METHOD="NOT NULL "PAYMENT_METHOD="PayPail") or (PAYMENT_METHOD="Credit") or (PAYMENT_METHOD="Debit") or "PAYMENT_METHOD" SNOT NULL	PAYMENT_AUTO_PK	ADMIN ADMIN ADMIN ADMIN	INVOICE_AUTO_PK INVOICE_HOME_PK DRIVER_PK	NO ACTION NO ACTION NO ACTION

Question (h)

Q1) Table joins with at least 3 tables in join

Query:

```
64 --n
65 --Q1
65 --Q1
66 SELECT CUSTOMER_ID, FIRST NAME, LAST NAME, INSURANCE_ID, PREMIUM_AMOUNT, INSURANCE_STATUS, HOME_ID, HOME_PURCHASE_VALUE, HOME_TYPE
67 FROM CUSTOMER NATURAL JOIN HOME_INSURANCE NATURAL JOIN HOME_RECORD NATURAL JOIN INSURED_HOME
68 ORDER BY CUSTOMER_ID;
```

Result: (screenshot from exported .csv file)

`			. *	ı ´				
CUSTOMER_ID	FIRST_NAME	LAST_NAME	INSURANCE_ID	PREMIUM_AMOUNT	INSURANCE_STATUS	HOME_ID	HOME_PURCHASE_VALUE	HOME_TYPE
1	WINDOWS	LINUX	1100000011	5000	P	1000000011	150000	S
2	NATASHA	ROMANOFF	1100000021	6000	C	1000000021	100000	S
3	TOM	HOLLAND	1100000031	5000	P	1000000031	250000	M
4	ROBERT	DOWNEY	1100000041	5000	P	1000000041	100000	С
4	ROBERT	DOWNEY	1100000043	6000	С	1000000042	120000	S
5	TAYLOR	SWIFT	1100000051	18000	С	1000000051	100000	S
5	TAYLOR	SWIFT	1100000051	18000	С	1000000052	130000	С
5	TAYLOR	SWIFT	1100000051	18000	С	1000000053	350000	T
6	KEVIN	DURANT	1100000061	7000	P	1000000061	130000	S
6	KEVIN	DURANT	1100000062	5000	С	1000000062	100000	С
7	KYRIE	IRVING	1100000071	7000	С	1000000071	130000	S
7	KYRIE	IRVING	1100000072	5000	С	1000000072	100000	С
8	CLOUD	STRIFE	1100000081	17000	P	1000000081	110000	S
8	CLOUD	STRIFE	1100000081	17000	P	1000000082	100000	S
8	CLOUD	STRIFE	1100000081	17000	P	1000000083	130000	С
8	CLOUD	STRIFE	1100000082	15000	С	1000000084	330000	Т
9	AARON	ROSS	1100000091	7000	С	1000000091	130000	С
9	AARON	ROSS	1100000092	7000	Р	1000000092	100000	S
10	JONATHAN	SPENCER	1100000101	5000	Р	1000000101	200000	С
10	JONATHAN	SPENCER	1100000102	5000	С	1000000102	150000	S
15	SOPHIA	BAILEY	1100000153	5000	Р	1000000151	70000	S
15	SOPHIA	BAILEY	1100000153	5000	Р	1000000152	80000	С

Goal: obtain some information about customer's personal information, home insurance he/she has and information of his insured home.

Q2) Multi-row subquery

Query:

```
71 --Q2
72 SELECT CUSTOMER_ID, PREMIUM_AMOUNT
73 FROM HOME_INSURANCE
74 WHERE PREMIUM_AMOUNT >= ALL (SELECT AVG(PREMIUM_AMOUNT) FROM HOME_INSURANCE GROUP BY CUSTOMER_ID);
```

Result:

	customer_id	premium_amount
1	5	18000

Goal: obtain premium amounts that are larger than or equal to all average premium amounts of any customer.

Q3) Co-related subquery

Query:

```
77 --Q3
78 SELECT a.CUSTOMER_ID, a.PREMIUM_AMOUNT
79 FROM HOME_INSURANCE a
80 WHERE a.PREMIUM_AMOUNT > (SELECT AVG(b.PREMIUM_AMOUNT) PERSONALAVG FROM HOME_INSURANCE b WHERE a.CUSTOMER_ID);
```

Result:

	customer_id	premium_amount
1		4 6000
2		6 7000
3		7 7000
4		8 17000

Goal: obtain premium amounts that are larger than the average premium amount of the same customer .

Q4) SET operator query

Query:

```
--Q4

84 select CUSTOMER_ID, PREMIUM_AMOUNT

85 from AUTO_INSURANCE

86 where PREMIUM_AMOUNT > (select AVG(PREMIUM_AMOUNT) from AUTO_INSURANCE)

87 INTERSECT

88 select CUSTOMER_ID, PREMIUM_AMOUNT

89 from AUTO_INSURANCE

90 where PREMIUM_AMOUNT < (select MAX(PREMIUM_AMOUNT) from AUTO_INSURANCE)

91 order by PREMIUM_AMOUNT desc;
```

Result:

	customer_id	premium_amount
1	14	4900
2	7	4700
3	10	4500
4	14	4200

Goal: list all id and premium amount of customer who bought auto insurance and whose premium amount is greater than average premium amount but doesn't have the highest premium amount

${f Q4}{f)}$ Query with any analytical function or in line view or WITH clause

Query:

```
94 --Q5
95 WITH TOTAL AS
96 (select CUSTOMER_ID, INSURANCE_ID, PREMIUM_AMOUNT
97 from AUTO_INSURANCE
98 where INSURANCE_STATUS='C'
99 UNION
100 select CUSTOMER_ID, INSURANCE_ID, PREMIUM_AMOUNT
101 from HOME_INSURANCE
102 where INSURANCE_STATUS='C')
103 select a.FIRST_NAME, a.LAST_NAME, b.PREMIUM_AMOUNT
104 from CUSTOMER a, TOTAL b
105 where a.CUSTOMER_ID=b.CUSTOMER_ID and b.PREMIUM_AMOUNT=(select MAX(PREMIUM_AMOUNT) from TOTAL);
106
```

Result:

	first_name	last_name	premium_amount
1	TAYLOR	SWIFT	18000

Goal: list first name, last name and premium amount of the customer who has the highest premium amount among all insurances including different types of insurance.