mysql -u root -p

sudo nano /etc/my.cnf

add following -

[mysqld]

local-infile

secure-file-priv=""

[mysql]

local-infile

CREATE DATABASE yelp;

CREATE TABLE yelp\_business

(

business\_id VARCHAR(100) DEFAULT NULL

, name VARCHAR(100) DEFAULT NULL

, neighborhood VARCHAR(100) DEFAULT NULL

, address VARCHAR(200) DEFAULT NULL

, city VARCHAR(100) DEFAULT NULL

, state VARCHAR(100) DEFAULT NULL

, postal\_code VARCHAR(100) DEFAULT NULL

, latitude VARCHAR(100) DEFAULT NULL

, longitude VARCHAR(100) DEFAULT NULL

, stars DECIMAL(2, 1) DEFAULT NULL

, review\_count INT DEFAULT NULL

, is\_open INT DEFAULT NULL

, categories VARCHAR(500) DEFAULT NULL

);

Stars: 4.5, 3.0: 转换为小数类型，decimal（2，1），即精度为2，小数位为1 。

LOAD DATA LOCAL INFILE '/Users/raymondliu/Desktop/GoValley/Yelp/yelp\_business.csv'

INTO TABLE yelp.yelp\_business

FIELDS TERMINATED BY ','

OPTIONALLY ENCLOSED BY '"'

IGNORE 1 LINES

;

wc -l yelp\_business.csv

have you peeked the data before setting ddl?

what are the correct data types given our file?

have you checked the number of line is the same?

have you used the correct delimiter for fields and lines (which also depends on your OS)

have you correctly handled delimiters in special situations (wrapped within quotes)?

how did you handle empty or invalid values?

have you truncated any data during loading process?

are there any other warnings that you should be aware of?

CREATE TABLE yelp\_business\_hours

(

business\_id VARCHAR(100) DEFAULT NULL

, monday VARCHAR(100) DEFAULT NULL

, tuesday VARCHAR(100) DEFAULT NULL

, wednesday VARCHAR(100) DEFAULT NULL

, thursday VARCHAR(100) DEFAULT NULL

, friday VARCHAR(100) DEFAULT NULL

, saturday VARCHAR(100) DEFAULT NULL

, sunday VARCHAR(100) DEFAULT NULL

);

LOAD DATA LOCAL INFILE '/Users/raymondliu/Desktop/GoValley/Yelp/yelp\_business\_hours.csv'

INTO TABLE yelp.yelp\_business\_hours

FIELDS TERMINATED BY ','

IGNORE 1 LINES

;

CREATE TABLE yelp\_checkin

(

business\_id VARCHAR(100) DEFAULT NULL

, weekday VARCHAR(100) DEFAULT NULL

, hour VARCHAR(100) DEFAULT NULL

, checkins VARCHAR(100) DEFAULT NULL

);

LOAD DATA LOCAL INFILE '/Users/raymondliu/Desktop/GoValley/Yelp/yelp\_checkin.csv'

INTO TABLE yelp.yelp\_checkin

FIELDS TERMINATED BY ','

IGNORE 1 LINES

;

CREATE TABLE yelp\_tip

(

text VARCHAR(1000) DEFAULT NULL

, date DATE DEFAULT NULL

, likes INT DEFAULT NULL

, business\_id VARCHAR(100) DEFAULT NULL

, user\_id VARCHAR(100) DEFAULT NULL

);

LOAD DATA LOCAL INFILE '/Users/raymondliu/Desktop/GoValley/Yelp/yelp\_tip.csv'

INTO TABLE yelp.yelp\_tip

FIELDS TERMINATED BY ','

OPTIONALLY ENCLOSED BY '"'

ESCAPED BY ''

LINES TERMINATED BY '\r\n'

IGNORE 1 LINES

;

SELECT \*

FROM yelp.yelp\_tip

LIMIT 10200, 1

;

sed '10203q;d' yelp\_tip.csv

sed -n '10200,10300p' < yelp\_tip.csv

CREATE TABLE yelp\_user

(

user\_id VARCHAR(100) DEFAULT NULL

, name VARCHAR(100) DEFAULT NULL

, review\_count INT DEFAULT NULL

, yelping\_since VARCHAR(100) DEFAULT NULL

, friends MEDIUMTEXT DEFAULT NULL

, useful INT DEFAULT NULL

, funny INT DEFAULT NULL

, cool INT DEFAULT NULL

, fans INT DEFAULT NULL

, elite VARCHAR(100) DEFAULT NULL

, average\_stars DECIMAL(3, 2) DEFAULT NULL

, compliment\_hot INT DEFAULT NULL

, compliment\_more INT DEFAULT NULL

, compliment\_profile INT DEFAULT NULL

, compliment\_cute INT DEFAULT NULL

, compliment\_list INT DEFAULT NULL

, compliment\_note INT DEFAULT NULL

, compliment\_plain INT DEFAULT NULL

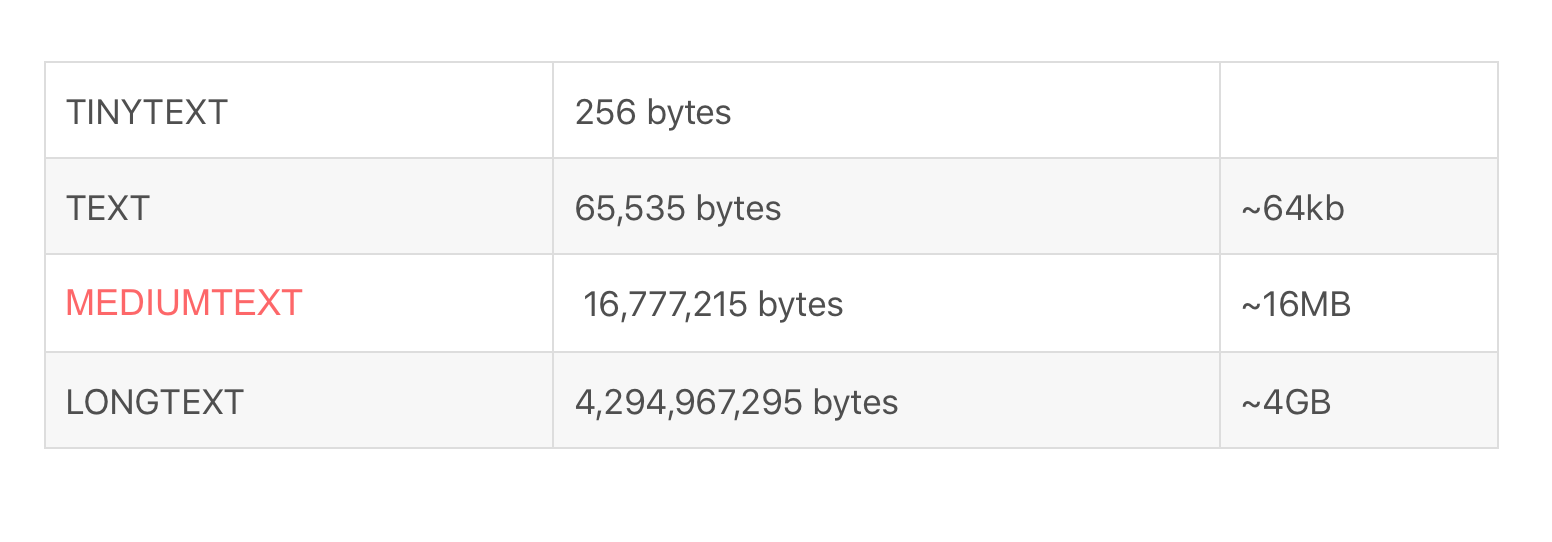
, compliment\_cool INT DEFAULT NULL

, compliment\_funny INT DEFAULT NULL

, compliment\_writer INT DEFAULT NULL

, compliment\_photos INT DEFAULT NULL

);



LOAD DATA LOCAL INFILE '/Users/raymondliu/Desktop/GoValley/Yelp/yelp\_user.csv'

INTO TABLE yelp.yelp\_user

FIELDS TERMINATED BY ','

ENCLOSED BY '"'

LINES TERMINATED BY '\r\n'

IGNORE 1 LINES

;

SELECT \*

FROM yelp.yelp\_user

LIMIT 1500, 1

;

CREATE TABLE yelp\_review

(

review\_id VARCHAR(100) DEFAULT NULL

, user\_id VARCHAR(100) DEFAULT NULL

, business\_id VARCHAR(100) DEFAULT NULL

, stars INT DEFAULT NULL

, date DATE DEFAULT NULL

, text LONGTEXT DEFAULT NULL

, useful INT DEFAULT NULL

, funny INT DEFAULT NULL

, cool INT DEFAULT NULL

);

LOAD DATA LOCAL INFILE '/Users/raymondliu/Desktop/GoValley/Yelp/yelp\_review.csv'

INTO TABLE yelp.yelp\_review

FIELDS TERMINATED BY ','

ENCLOSED BY '"'

ESCAPED BY ''

LINES TERMINATED BY '\r\n'

IGNORE 1 LINES

;

ESCAPED BY '' to handle ‘\’: e.g.

“On the weekends, everyone seems to be there for the snow crab legs - if that's what you are coming for, forget it! You have to fight\/wait in-line to get it. It's probably easier to eat it at Mandarin.”

-- Q1: What are the top 20 cities (with state information) with the most businesses on yelp?

-- Expected columns: state, city, business\_count

SELECT state, city, count(DISTINCT business\_id) AS business\_count

FROM yelp\_business

GROUP BY state, city

ORDER BY business\_count DESC

LIMIT 20

;

-- +-------+-------------+----------------+

-- | state | city | business\_count |

-- +-------+-------------+----------------+

-- | NV | Las Vegas | 26798 |

-- | AZ | Phoenix | 17213 |

-- | ON | Toronto | 17210 |

-- | NC | Charlotte | 8554 |

-- | AZ | Scottsdale | 8227 |

-- | PA | Pittsburgh | 6354 |

-- | QC | Montreal | 5972 |

-- | AZ | Mesa | 5871 |

-- | NV | Henderson | 4463 |

-- +-------+-------------+----------------+

-- Q2: What are the average stars for top 10 most reviewed restaurants in Toronto?

-- Expected columns: business\_id, review\_count, avg\_star

-- tricky part is do not know which one is restaurant, so we used like keyword.

-- the “average stars” may be a little confusing. I am referring to the stars field in the

-- review\_count table, it is already the average.

SELECT business\_id, review\_count, stars

FROM yelp\_business

WHERE city = 'Toronto'

AND state = 'ON'

AND (lower(categories) LIKE '%restaurant%’ OR lower(categories) LIKE '%food%')

ORDER BY review\_count DESC

LIMIT 10

;

-- AND lower(categories) REGEXP '.\*(restaurant|food).\*'

-- +------------------------+--------------+-------+

-- | business\_id | review\_count | stars |

-- +------------------------+--------------+-------+

-- | r\_BrIgzYcwo1NAuG9dLbpg | 1494 | 4.5 |

-- | aLcFhMe6DDJ430zelCpd2A | 1270 | 4.0 |

-- | RtUvSWO\_UZ8V3Wpj0n077w | 1184 | 4.0 |

-- | N93EYZy9R0sdlEvubu94ig | 973 | 4.0 |

-- | iGEvDk6hsizigmXhDKs2Vg | 945 | 4.5 |

-- | RwRNR4z3kY-4OsFqigY5sw | 848 | 3.5 |

-- | -av1lZI1JDY\_RZN2eTMnWg | 808 | 3.5 |

-- | zgQHtqX0gqMw1nlBZl2VnQ | 759 | 3.0 |

-- | uAAWlLdsoUf872F1FKiX1A | 746 | 4.0 |

-- | f5O7v\_X\_jCg2itqacRfxhg | 701 | 4.0 |

-- +------------------------+--------------+-------+

-- Q3: How many users have left reviews but all the reviews are 1 star?

-- Expected columns: user\_count

SELECT count(\*) AS user\_count

FROM

(

SELECT user\_id

FROM yelp\_review

GROUP BY user\_id

HAVING max(stars) = 1 AND MIN(STARS) = 1

) t

;

-- +------------+

-- | user\_count |

-- +------------+

-- | 186896 |

-- +------------+

-- using LEFT JOIN

SELECT count(\*)

FROM

(SELECT DISTINCT user\_id

FROM yelp\_review

) a

LEFT JOIN

(SELECT DISTINCT user\_id

FROM yelp\_review

WHERE stars > 1

) b

ON (a.user\_id = b.user\_id)

WHERE b.user\_id IS NULL;

-- Q4: Who wrote the second funniest review in this data?

-- What is his/her name and how many reviews has he written?

-- Expected columns: name, review\_count

SELECT name, review\_count

FROM yelp\_user a

JOIN

(

SELECT user\_id

FROM yelp\_review

ORDER BY funny DESC

LIMIT 1, 1

) b

ON a.user\_id = b.user\_id

;

SELECT name, review\_count

FROM yelp\_user a

JOIN

(

SELECT user\_id

, rank() OVER (ORDER BY funny DESC) AS r

FROM yelp\_review

) b

ON a.user\_id = b.user\_id

WHERE r = 2

;

### why this is wrong??? Where clause is called before select clause.

SELECT name, review\_count

FROM yelp\_user a

JOIN

(

SELECT user\_id

, rank() OVER (ORDER BY funny DESC) AS r

FROM yelp\_review

WHERE r = 2

) b

ON a.user\_id = b.user\_id

;

-- +--------+--------------+

-- | name | review\_count |

-- +--------+--------------+

-- | Nicole | 157 |

-- +--------+--------------+

-- Q5: How many user have left tips to more business than reviews?

-- That is, for each user in this set, more businesses are getting tips from them than getting review from them.

-- Expected columns: user\_count

SELECT count(\*) AS user\_count

FROM

(

SELECT user\_id, count(DISTINCT business\_id) AS bus\_cnt

FROM yelp\_tip

GROUP BY user\_id

) a

LEFT JOIN

(

SELECT user\_id, count(DISTINCT business\_id) AS bus\_cnt

FROM yelp\_review

GROUP BY user\_id

) b

ON a.user\_id = b.user\_id

WHERE b.user\_id is NULL or a.bus\_cnt > b.bus\_cnt

(OR WHERE A.BUS\_CNT > NVL(B.BUS\_CNT, 0))

;

-- +------------+

-- | user\_count |

-- +------------+

-- | 31831 |

-- +------------+

-- Q6: We define "boring people" as -

-- users have left reviews but...

-- none of the reviews were marked as useful, funny, or cool...

-- and he/she has left no tips ever

-- How many "boring people" do we see in the data?

-- note: there is no tip in the yelp\_review table.

-- we will need to obtain from yelp\_tip directly

SELECT count(a.user\_id) AS user\_count

FROM

(

SELECT user\_id

FROM yelp\_review

--FROM yelp\_user

GROUP BY user\_id

HAVING max(useful)=0 and max(funny)=0 and max(cool)=0

) a

LEFT JOIN

(

SELECT DISTINCT user\_id

FROM yelp\_tip

) b

ON a.user\_id = b.user\_id

WHERE b.user\_id IS NULL

;

-- +------------+

-- | user\_count |

-- +------------+

-- | 463948 |

-- +------------+

-- Q7: What is the distribution of reviews per user?

-- Please generate the histogram of this.

-- What is the distribution look like? How do you describe it?

-- Is mean or median a better representation of the distribution?

-- Expected columns: review\_count, user\_count

-- need to find out for review\_count = 1, what is the user\_count

-- review\_count = 2, what is the user\_count, etc…

SELECT review\_count, count(\*) AS user\_count

FROM

(

SELECT user\_id, count(DISTINCT review\_id) AS review\_count

FROM yelp\_review

GROUP BY user\_id

) t

GROUP BY review\_count

ORDER BY review\_count

;

-- actually, can use the yelp\_user table directly. But will produce different results.

-- depend on how you understand the review\_count .

SELECT review\_count, count(\*) AS user\_count

FROM yelp\_user

GROUP BY review\_count

ORDER BY review\_count

LIMIT 50;

SELECT \*

FROM

(select user\_id, name, review\_count from yelp\_user limit 50) a

LEFT JOIN

( SELECT user\_id, count(DISTINCT review\_id) AS review\_count

FROM yelp\_review

GROUP BY user\_id) b

ON (a.user\_id = b.user\_id);

-- +--------------+------------+

-- | review\_count | user\_count |

-- +--------------+------------+

-- | 1 | 699403 |

-- | 2 | 219533 |

-- | 3 | 112557 |

-- | 4 | 67498 |

-- | 5 | 44228 |

-- | 6 | 31462 |

-- | 7 | 23078 |

-- | 8 | 18100 |

-- | 9 | 14072 |

-- | 10 | 11312 |

-- | 11 | 9389 |

-- | 12 | 7644 |

-- | 13 | 6499 |

-- | 14 | 5638 |

-- | 15 | 4860 |

-- | 16 | 4156 |

-- | 17 | 3660 |

-- | 18 | 3197 |

-- | 19 | 2818 |

-- | 20 | 2442 |

-- | 21 | 2147 |

-- | 22 | 1920 |

-- | 23 | 1808 |

-- | 24 | 1587 |

-- | 25 | 1426 |

-- | 26 | 1319 |

-- | 27 | 1262 |

-- | 28 | 1091 |

-- | 29 | 1030 |

-- | 30 | 928 |

-- | 31 | 815 |

-- | 32 | 864 |

-- | 33 | 784 |

-- | 34 | 733 |

-- | 35 | 685 |

-- | 36 | 656 |

-- | 37 | 616 |

-- | 38 | 572 |

-- | 39 | 545 |

-- | 40 | 444 |

-- | 41 | 465 |

-- | 42 | 405 |

-- | 43 | 402 |

-- | 44 | 395 |

-- | 45 | 348 |

-- | 46 | 354 |

-- | 47 | 324 |

-- | 48 | 327 |

-- | 49 | 299 |

-- | 50 | 287 |

-- | 51 | 262 |

-- | 52 | 269 |

-- | 53 | 255 |

-- | 54 | 233 |

-- | 55 | 251 |

-- | 56 | 224 |

-- | 57 | 217 |

-- | 58 | 195 |

-- | 59 | 199 |

-- | 60 | 184 |

-- | 61 | 176 |

-- | 62 | 161 |

-- | 63 | 192 |

-- | 64 | 159 |

-- | 65 | 167 |

-- | 66 | 145 |

-- | 67 | 146 |

-- | 68 | 134 |

-- | 69 | 132 |

-- | 70 | 111 |

-- | 71 | 122 |

-- | 72 | 102 |

-- | 73 | 118 |

-- | 74 | 121 |

-- | 75 | 101 |

-- | 76 | 106 |

-- | 77 | 104 |

-- | 78 | 106 |

-- | 79 | 98 |

-- | 80 | 91 |

-- | 81 | 87 |

-- | 82 | 86 |

-- | 83 | 85 |

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-- | 85 | 96 |

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-- | 88 | 77 |

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-- | 90 | 70 |

-- | 91 | 62 |

-- | 92 | 79 |

-- | 93 | 76 |

-- | 94 | 72 |

-- | 95 | 63 |

-- | 96 | 80 |

-- | 97 | 52 |

-- | 98 | 55 |

-- | 99 | 59 |

-- | 100 | 62 |

-- | 101 | 71 |

-- | 102 | 42 |

-- | 103 | 50 |

-- | 104 | 53 |

-- | 105 | 51 |

-- | 106 | 43 |

-- | 107 | 50 |

-- | 108 | 55 |

-- | 109 | 36 |

-- | 110 | 43 |

-- | 111 | 42 |

-- | 112 | 51 |

-- | 113 | 40 |

-- | 114 | 45 |

-- | 115 | 42 |

-- | 116 | 36 |

-- | 117 | 47 |

-- | 118 | 45 |

-- | 119 | 41 |

-- | 120 | 37 |

-- | 121 | 34 |

-- | 122 | 33 |

-- | 123 | 43 |

-- | 124 | 30 |

-- | 125 | 36 |

-- | 126 | 29 |

-- | 127 | 25 |

-- | 128 | 32 |

-- | 129 | 21 |

-- | 130 | 25 |

-- | 131 | 38 |

-- | 132 | 27 |

-- | 133 | 33 |

-- | 134 | 37 |

-- | 135 | 30 |

-- | 136 | 28 |

-- | 137 | 24 |

-- | 138 | 34 |

-- | 139 | 29 |

-- | 140 | 24 |

-- | 141 | 24 |

-- | 142 | 21 |

-- | 143 | 23 |

-- | 144 | 20 |

-- | 145 | 21 |

-- | 146 | 22 |

-- | 147 | 21 |

-- | 148 | 15 |

-- | 149 | 24 |

-- | 150 | 20 |

-- | 151 | 18 |

-- | 152 | 25 |

-- | 153 | 19 |

-- | 154 | 19 |

-- | 155 | 21 |

-- | 156 | 21 |

-- | 157 | 16 |

-- | 158 | 14 |

-- | 159 | 14 |

-- | 160 | 19 |

-- | 161 | 14 |

-- | 162 | 8 |

-- | 163 | 17 |

-- | 164 | 12 |

-- | 165 | 19 |

-- | 166 | 20 |

-- | 167 | 13 |

-- | 168 | 21 |

-- | 169 | 13 |

-- | 170 | 12 |

-- | 171 | 20 |

-- | 172 | 15 |

-- | 173 | 17 |

-- | 174 | 14 |

-- | 175 | 16 |

-- | 176 | 14 |

-- | 177 | 13 |

-- | 178 | 18 |

-- | 179 | 16 |

-- | 180 | 14 |

-- | 181 | 11 |

-- | 182 | 11 |

-- | 183 | 5 |

-- | 184 | 10 |

-- | 185 | 4 |

-- | 186 | 11 |

-- | 187 | 13 |

-- | 188 | 14 |

-- | 189 | 7 |

-- | 190 | 7 |

-- | 191 | 9 |

-- | 192 | 8 |

-- | 193 | 15 |

-- | 194 | 10 |

-- | 195 | 7 |

-- | 196 | 9 |

-- | 197 | 10 |

-- | 198 | 10 |

-- | 199 | 12 |

-- | 200 | 12 |

-- | 201 | 6 |

-- | 202 | 19 |

-- | 203 | 11 |

-- | 204 | 11 |

-- | 205 | 5 |

-- | 206 | 8 |

-- | 207 | 8 |

-- | 208 | 10 |

-- | 209 | 7 |

-- | 210 | 9 |

-- | 211 | 11 |

-- | 212 | 8 |

-- | 213 | 7 |

-- | 214 | 7 |

-- | 215 | 12 |

-- | 216 | 5 |

-- | 217 | 7 |

-- | 218 | 5 |

-- | 219 | 11 |

-- | 220 | 6 |

-- | 221 | 3 |

-- | 222 | 2 |

-- | 223 | 8 |

-- | 224 | 6 |

-- | 225 | 8 |

-- | 226 | 8 |

-- | 227 | 7 |

-- | 228 | 10 |

-- | 229 | 8 |

-- | 230 | 5 |

-- | 231 | 4 |

-- | 232 | 6 |

-- | 233 | 6 |

-- | 234 | 4 |

-- | 235 | 9 |

-- | 236 | 6 |

-- | 237 | 4 |

-- | 238 | 2 |

-- | 239 | 8 |

-- | 240 | 7 |

-- | 241 | 8 |

-- | 242 | 3 |

-- | 243 | 3 |

-- | 244 | 8 |

-- | 245 | 3 |

-- | 246 | 2 |

-- | 247 | 4 |

-- | 248 | 8 |

-- | 249 | 4 |

-- | 250 | 7 |

-- | 251 | 5 |

-- | 252 | 2 |

-- | 253 | 5 |

-- | 254 | 6 |

-- | 255 | 2 |

-- | 256 | 1 |

-- | 257 | 4 |

-- | 258 | 1 |

-- | 259 | 7 |

-- | 260 | 3 |

-- | 261 | 4 |

-- | 262 | 2 |

-- | 263 | 3 |

-- | 264 | 2 |

-- | 265 | 5 |

-- | 266 | 3 |

-- | 267 | 7 |

-- | 268 | 6 |

-- | 269 | 4 |

-- | 270 | 2 |

-- | 271 | 7 |

-- | 272 | 5 |

-- | 273 | 3 |

-- | 274 | 5 |

-- | 275 | 2 |

-- | 276 | 3 |

-- | 277 | 5 |

-- | 278 | 3 |

-- | 279 | 4 |

-- | 280 | 6 |

-- | 281 | 4 |

-- | 282 | 3 |

-- | 283 | 4 |

-- | 284 | 1 |

-- | 285 | 4 |

-- | 286 | 3 |

-- | 287 | 3 |

-- | 288 | 4 |

-- | 289 | 2 |

-- | 290 | 3 |

-- | 291 | 2 |

-- | 292 | 6 |

-- | 293 | 2 |

-- | 294 | 4 |

-- | 295 | 3 |

-- | 296 | 4 |

-- | 297 | 6 |

-- | 298 | 2 |

-- | 299 | 1 |

-- | 300 | 1 |

-- | 301 | 2 |

-- | 302 | 3 |

-- | 303 | 1 |

-- | 304 | 2 |

-- | 305 | 8 |

-- | 306 | 3 |

-- | 307 | 6 |

-- | 308 | 4 |

-- | 309 | 4 |

-- | 310 | 3 |

-- | 311 | 1 |

-- | 312 | 5 |

-- | 313 | 7 |

-- | 314 | 2 |

-- | 315 | 3 |

-- | 316 | 4 |

-- | 318 | 2 |

-- | 319 | 2 |

-- | 320 | 2 |

-- | 321 | 2 |

-- | 322 | 3 |

-- | 323 | 3 |

-- | 324 | 1 |

-- | 326 | 3 |

-- | 327 | 1 |

-- | 328 | 3 |

-- | 329 | 3 |

-- | 330 | 9 |

-- | 331 | 5 |

-- | 333 | 2 |

-- | 334 | 3 |

-- | 335 | 1 |

-- | 336 | 1 |

-- | 337 | 5 |

-- | 338 | 1 |

-- | 339 | 1 |

-- | 340 | 3 |

-- | 341 | 1 |

-- | 342 | 3 |

-- | 343 | 2 |

-- | 344 | 2 |

-- | 345 | 2 |

-- | 347 | 3 |

-- | 348 | 2 |

-- | 350 | 1 |

-- | 351 | 1 |

-- | 352 | 2 |

-- | 353 | 1 |

-- | 354 | 3 |

-- | 355 | 2 |

-- | 356 | 1 |

-- | 359 | 2 |

-- | 360 | 1 |

-- | 361 | 1 |

-- | 362 | 1 |

-- | 363 | 4 |

-- | 364 | 2 |

-- | 365 | 1 |

-- | 366 | 1 |

-- | 367 | 1 |

-- | 368 | 2 |

-- | 370 | 2 |

-- | 373 | 1 |

-- | 374 | 2 |

-- | 375 | 1 |

-- | 376 | 4 |

-- | 377 | 2 |

-- | 378 | 2 |

-- | 379 | 2 |

-- | 380 | 1 |

-- | 381 | 1 |

-- | 382 | 2 |

-- | 383 | 4 |

-- | 384 | 3 |

-- | 385 | 1 |

-- | 386 | 1 |

-- | 387 | 2 |

-- | 388 | 1 |

-- | 391 | 2 |

-- | 392 | 1 |

-- | 393 | 2 |

-- | 397 | 5 |

-- | 398 | 2 |

-- | 399 | 2 |

-- | 400 | 1 |

-- | 401 | 1 |

-- | 402 | 1 |

-- | 404 | 2 |

-- | 405 | 1 |

-- | 407 | 2 |

-- | 408 | 1 |

-- | 409 | 2 |

-- | 410 | 1 |

-- | 411 | 4 |

-- | 412 | 1 |

-- | 414 | 3 |

-- | 415 | 1 |

-- | 422 | 2 |

-- | 425 | 2 |

-- | 426 | 1 |

-- | 427 | 1 |

-- | 428 | 1 |

-- | 429 | 2 |

-- | 432 | 4 |

-- | 433 | 2 |

-- | 435 | 1 |

-- | 438 | 2 |

-- | 440 | 3 |

-- | 441 | 1 |

-- | 445 | 2 |

-- | 447 | 1 |

-- | 448 | 3 |

-- | 451 | 1 |

-- | 454 | 1 |

-- | 455 | 1 |

-- | 457 | 1 |

-- | 459 | 1 |

-- | 462 | 2 |

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-- | 550 | 1 |

-- | 554 | 1 |

-- | 556 | 1 |

-- | 557 | 1 |

-- | 564 | 2 |

-- | 565 | 2 |

-- | 566 | 2 |

-- | 569 | 1 |

-- | 571 | 1 |

-- | 573 | 1 |

-- | 574 | 3 |

-- | 575 | 1 |

-- | 579 | 1 |

-- | 580 | 2 |

-- | 581 | 1 |

-- | 586 | 1 |

-- | 588 | 1 |

-- | 590 | 1 |

-- | 591 | 1 |

-- | 592 | 1 |

-- | 596 | 1 |

-- | 598 | 1 |

-- | 600 | 2 |

-- | 604 | 1 |

-- | 608 | 1 |

-- | 611 | 1 |

-- | 615 | 2 |

-- | 617 | 1 |

-- | 620 | 2 |

-- | 626 | 1 |

-- | 649 | 1 |

-- | 658 | 1 |

-- | 659 | 1 |

-- | 672 | 1 |

-- | 673 | 1 |

-- | 681 | 1 |

-- | 682 | 1 |

-- | 689 | 1 |

-- | 693 | 1 |

-- | 695 | 1 |

-- | 700 | 1 |

-- | 705 | 2 |

-- | 710 | 1 |

-- | 722 | 1 |

-- | 730 | 1 |

-- | 734 | 1 |

-- | 739 | 1 |

-- | 753 | 1 |

-- | 761 | 2 |

-- | 762 | 1 |

-- | 772 | 2 |

-- | 775 | 1 |

-- | 787 | 1 |

-- | 798 | 1 |

-- | 803 | 1 |

-- | 810 | 1 |

-- | 823 | 1 |

-- | 830 | 1 |

-- | 833 | 1 |

-- | 838 | 1 |

-- | 874 | 1 |

-- | 896 | 1 |

-- | 915 | 1 |

-- | 926 | 1 |

-- | 947 | 1 |

-- | 955 | 1 |

-- | 989 | 1 |

-- | 1051 | 1 |

-- | 1092 | 1 |

-- | 1101 | 1 |

-- | 1117 | 1 |

-- | 1126 | 1 |

-- | 1159 | 1 |

-- | 1184 | 1 |

-- | 1322 | 1 |

-- | 1463 | 1 |

-- | 1611 | 1 |

-- | 2077 | 1 |

-- | 3569 | 1 |

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